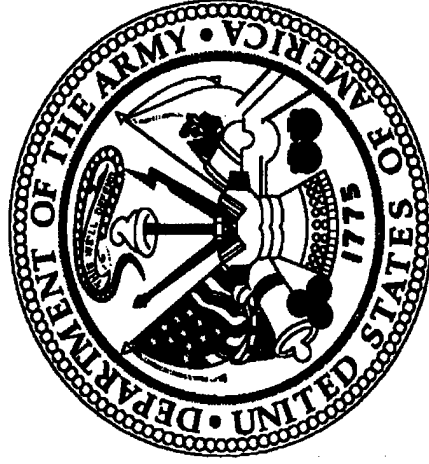


DEPARTMENT OF THE ARMY

Procurement Programs



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FY 2001 Budget Estimate

PROCUREMENT OF AMMUNITION, ARMY

APPROPRIATION

February 2000

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DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99		FY 00		FY 01	
				QTY	COST	QTY	COST	QTY	COST
				(7)	(8)	(9)	(10)	(11)	(12)
(1)	(2)	(3)	(4)						
	SMALL/MEDIUM CALIBER AMMUNITION								
1	CTG, 5.56MM, ALL TYPES (E00700)	A			95,122		118,089		97,758
2	CTG 5.56MM ARMOR PIERCING M995 (F47600)	A		1,244	1,911	1,250	1,876	873	1,337
3	CTG, 7.62MM, ALL TYPES (E02000)	A			12,358		8,462		8,990
4	CTG 7.62MM ARMOR PIERCING XM993 (F47500)	A		914	1,911	600	1,344		
5	CTG, 9MM, ALL TYPES (EA3000)	A			2,042		975		2,487
6	CTG, .45 CAL, ALL TYPES (ER8110)	A			2				
7	CTG, .50 CAL, ALL TYPES (E08000)	A			17,258		23,191		10,646
8	CTG CAL .50 API MK211 MOD 0 (F47400)	A						254	1,987
9	CTG, 20MM, ALL TYPES (E08900)	A					2,743		2,004
10	CTG, 25MM, ALL TYPES (E08200)	A			82,048		47,229		57,780
11	CTG, 30MM, ALL TYPES (ER8120)	A			10,507		5,311		9,517
12	CTG, 40MM, ALL TYPES (ER8001)	A			33,322		44,175		60,788
13	NONLETHAL WEAPONS CAPABILITY SET (E91800)	B				5	7,926	5	8,397
	SUB-ACTIVITY TOTAL				256,481		261,321		261,691

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2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01		
				QTY	COST		QTY	COST		QTY	COST	
				(7)	(8)		(9)	(10)		(11)	(12)	
(1)	(2)	(3)	(4)									
	MORTAR AMMUNITION											
14	60MM MORTAR, ALL TYPES (E89600)				26,907			23,311			28,673	
15	CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)	B		8	9,288							
16	CTG MORTAR 81MM PRAC 1/10 RANGE M880 (E19800)	A					46	2,868		24	930	
17	CTG MORTAR 120MM FULL RANGE PRACTICE M931 (E25507)	A		73	29,488							
18	CTG MORTAR 120MM HE M934 W/MO FUZE (E25501)	A		50	36,775		65	48,847		62	45,031	
19	CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)	B		2	4,958		4	5,885				
20	CTG MORTAR 120MM SMOKE, M929 W/MO FUZE (E25504)	B					8	7,463				
21	CTG 120MM WP SMOKE M929A1 (E91300)						56	51,571		26	24,969	
	SUB-ACTIVITY TOTAL				107,416			139,945			99,603	
	TANK AMMUNITION											
22	CTG 120MM APFSDS-T M829A2/M829E3 (E78001)	A		3	14,609		7	31,387				
23	CTG 120MM HEAT-MP-T M830A1 (E78007)	A		2	10,916		2	14,713				
24	CTG TANK 120MM TP-T M831/M831A1 (E73300)	A		105	58,276		57	32,367		87	48,477	

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EXHIBIT P-1
February 2000

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01			
				QTY	COST	QTY	COST	QTY	COST	QTY	COST		
												(7)	(8)
(1)	(2)	(3)	(4)										
25	CTG TANK 120MM TPCSDS-T M865 (E73400)	A		240	122,816	165	85,352	199	101,512				
	SUB-ACTIVITY TOTAL				206,617		163,819		149,989				
	ARTILLERY AMMUNITION												
26	CTG ARTY 75MM BLANK M337A1 (E15200)	A		34	1,554	64	2,550	40	1,807				
27	CTG ARTY105MM BLANK M395 (E21200)	A				124	6,721						
28	CTG ARTY 105MM DPICM XM915 (E53500)	B				3	4,904						
29	CTG ARTY 105MM HERA M913 (E53700)	A											
30	CTG, ARTY 105MM M927 (E93300)	A		7	4,958								
31	CTG ARTY 105MM ILLUM M314 SERIES (E21700)	A				12	7,937		130				
32	PROJ ARTY 155MM SMOKE WP M825 (E67800)	A					14,569		14,682				
33	PROJ ARTY 155MM HE M795 (E66800)	A				17	9,783						
34	PROJ ARTY 155MM SADARM M898 (E66300)	B		30	31,275		14,938		14,907				
35	REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM) (E67505)						7,967	117	47,674				
36	PROJ ARTY 155MM HE M107 (E27601)	A		243	42,336	118	24,881	175	35,178				
37	MODULAR ARTILLERY CHARGE SYSTEM (MACS) (ER8021)	B				367	42,601	164	27,432				
	SUB-ACTIVITY TOTAL				80,429		136,851		141,810				

DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01		
				QTY	COST		QTY	COST		QTY	COST	
				(7)	(8)		(9)	(10)		(11)	(12)	
(1)	(2)	(3)	(4)									
	ARTILLERY FUZES											
38	ARTILLERY FUZES, ALL TYPES (ER8000) (E61200)	A			6,794			45,741			67,005	
	SUB-ACTIVITY TOTAL				<u>6,794</u>			<u>45,741</u>			<u>67,005</u>	
	MINES											
39	MINE, TRAINING, ALL TYPES (EA0800)	B			1,114			8,003			3,892	
40	MINE AT M87 (VOLCANO) (E72195)	A		3	11,898		4	17,655				
41	WIDE AREA MUNITIONS (E78100)	B		65	9,544		115	15,191		58	7,284	
	SUB-ACTIVITY TOTAL				<u>22,556</u>			<u>40,849</u>			<u>11,176</u>	
	ROCKETS											
42	BUNKER DEFEATING MUNITION (BDM) (E88400)	B			9,916			9,808				
43	ROCKET, HYDRA 70, ALL TYPES (E37300)	A			122,790			143,624			152,767	
	SUB-ACTIVITY TOTAL				<u>132,706</u>			<u>153,432</u>			<u>152,767</u>	
	OTHER AMMUNITION											
44	DEMOLITION MUNITIONS, ALL TYPES (E55400)	A			11,641			11,157			16,603	
45	GRENADES, ALL TYPES (E34000)	B			20,747			13,295			20,260	
46	SIGNALS, ALL TYPES (E46900)	A			5,093			9,705			13,067	

DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **AMMUNITION**

Activity: 1. **AMMUNITION**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99			FY 00			FY 01		
				QTY	COST	(7)	QTY	COST	(8)	QTY	COST	(12)
(1)	(2)	(3)	(4)	(7)	(8)	(7)	(9)	(10)	(11)	(12)	(12)	(12)
47	SIMULATORS, ALL TYPES (E51200)	A			3,653			2,248			3,053	
	SUB-ACTIVITY TOTAL				41,134			36,405			52,983	
	MISCELLANEOUS											
48	AMMO COMPONENTS, ALL TYPES (EB0016)	A			3,712			6,821			6,750	
49	CAD/PAD ALL TYPES (EA0003)	A			2,399			2,905			4,298	
50	ITEMS LESS THAN \$5 MILLION (EA0055)	A			6,352			7,599			10,145	
51	AMMUNITION PECULIAR EQUIPMENT (EA0575)	A			10,281			10,596			9,476	
52	FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)	A			5,223			5,261			5,118	
53	CLOSEOUT LIABILITIES (EA8500)				125,200						5,764	
	SUB-ACTIVITY TOTAL				153,167			33,182			41,551	
	ACTIVITY TOTAL				1,007,300			1,011,545			978,575	

DEPARTMENT OF THE ARMY
2001 PROCUREMENT PROGRAM

EXHIBIT P-1
February 2000

Appropriation: **AMMUNITION**

Activity: 2. **AMMUNITION PRODUCTION BASE SUPPORT**

LINE NO.	ITEM NOMENCLATURE	ID	(DOLS) FY 00 UNIT COST	FY 99		FY 00		FY 01	
				QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(7)	(8)	(9)	(10)	(11)	(12)
	PRODUCTION BASE SUPPORT								
54	PROVISION OF INDUSTRIAL FACILITIES (EP1000)				45,276		52,910		47,748
55	LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)				20,133		3,497		3,215
56	MAINTENANCE OF INACTIVE FACILITIES (EP1500)				17,746		12,941		12,267
57	CONVENTIONAL AMMO DEMILITARIZATION (EP1800)				82,281		85,614		84,799
58	ARMS INITIATIVE (EP2500)				9,819		26,418		4,719
	SUB-ACTIVITY TOTAL				175,255		181,380		152,748
	ACTIVITY TOTAL				175,255		181,380		152,748
	APPROPRIATION TOTAL				1,182,555		1,192,925		1,131,323

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG. 5.56MM, ALL TYPES (E00700)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	1666.0	40.7	66.3	95.1	118.1	97.8	102.3	96.2	91.8	91.5	0.0	2465.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	1666.0	40.7	66.3	95.1	118.1	97.8	102.3	96.2	91.8	91.5	0.0	2465.8	
Initial Spares													
Total Proc Cost	1666.0	40.7	66.3	95.1	118.1	97.8	102.3	96.2	91.8	91.5	0.0	2465.8	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes 5.56MM ALL TYPES.													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG, 5.56MM, ALL TYPES (E00700)				Weapon System Type:		Date: February 2000	
ID	CD	Cost Elements	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
			TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty				
			\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each
		CTG 5.56MM RIFLE LAUNCHER, NON-LET				15	150.87	3885	57	72.45	6370	104	61.20	
		CTG 5.56MM BALL M193 (A071)				55649	0.23	5080	19499	0.26	17			
		CTG 5.56MM BALL M193 (A066)				31336	0.32	13493	57921	0.23	51			
		CTG 5.56MM BLANK M200				32215	0.38	2043	10863	0.19	5955	55614	0.11	
		CTG 5.56MM BLANK M200 LINKED				16317	0.49	17988	61049	0.29	15111	60548	0.25	
		CTG 5.56MM BALL M855 LINKED				7962	0.51	10647	29182	0.36	2038	6250	0.33	
		CTG 5.56MM 4 BALL M855/1 TRACER				31588	0.40	32027	79802	0.40	36614	69459	0.53	
		CTG 5.56MM BALL M855 F/M16A2				78149	0.40	32926	107418	0.31	31602	149295	0.21	
		CTG 5.56MM TRACER M856 F/M16A2				4117	0.62							
		TOTAL	95122					118089			97758			

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 5.56MM RIFLE LAUNCHER NON-LETHAL XM9 (E91100)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty				15	57	104	112					288	
Gross Cost	0.0	0.0	0.0	2.3	3.9	6.4	6.5	0.0	0.0	0.0	0.0	19.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	2.3	3.9	6.4	6.5	0.0	0.0	0.0	0.0	19.0	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	2.3	3.9	6.4	6.5	0.0	0.0	0.0	0.0	19.0	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
The 5.56MM Non-Lethal round is a muzzle-launched ordnance, propelled by the use of an M195 grenade impulse cartridge. It is compatible with both the M16A2 and M4 Carbine. The item consists of a muzzle attaching launch tube and a packaged stack of rubber balls (M95) for its payload. The launched payload is intended to be non-lethal, low hazard and non-shrapnel producing, which upon impact, generates a temporary trauma to the body with the intent to confuse, disorient and/or momentarily distract/deter potential threat personnel. The Area Fire M95 is an inert item, cylindrical in shape, with an overall length of 7 inches and a diameter of 2 inches. The payload is 15 rubber coated steel balls, each being approximately 0.7 (~1/16) inches in diameter. Propulsive energy is provided by using an M195 Impulse Cartridge. Ignition of the M195 Impulse Cartridge generates the gas energy to propel and disperse the rubber coated balls to a group target. The M95 is a single shot disposable item.

JUSTIFICATION:
The FY01 procurement will provide friendly forces with the capability to enforce a standoff distance from a crowd of belligerents at a range of 30-80 meters without using deadly force. There are currently no non-lethal munitions for the M16A2 and M4 weapon systems.

TYPE CLASSIFICATION (TC) DATE: TC LRIP August 1999
TC STD August 2000
Acquisition Manager: Product Manager Small Arms

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG 5.56MM RIFLE LAUNCHER NON-LETHAL XM9 (E91100)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost	Specs Avail	Date Revisn Avail	RFP Issue Date
Fiscal Years						x1000	\$	Now?		
1. Complete Round M95										
FY 99	Alliant Techsystems, MN	SS/Option	TACOM-ARDEC	Feb-00	Sep-00	15	110.73	YES		
FY 00	Alliant Techsystems, MN	SS/Option	TACOM-ARDEC	Aug-00	Dec-00	57	58.86	YES		
FY 01	Alliant Techsystems, MN	SS/Option	TACOM-ARDEC	Jan-01	Apr-01	104	55.63			
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date: February 2000	
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 5.56MM BALL M193 (E00701)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	12765522	14242	26086	55649	77420							12938919	
Gross Cost	891.7	3.8	6.0	12.8	18.6	0.1	0.0	0.0	0.0	0.0	0.0	932.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	891.7	3.8	6.0	12.8	18.6	0.1	0.0	0.0	0.0	0.0	0.0	932.7	
Initial Spares													
Total Proc Cost	891.7	3.8	6.0	12.8	18.6	0.1	0.0	0.0	0.0	0.0	0.0	932.7	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The 5.56mm ball is an anti-personnel cartridge containing a 56 grain, gliding metal-jacketed bullet with a lead antimony core. It is issued for use in the M16/M16A1 series rifle. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds war reserve inventory in accordance with the Army's procurement goals. This budget line item procures the M193 ball in two configurations, i.e., DODICs (Department of Defense Identification Code) A066 and A071. DODIC A071 is linked in a clip and used to support war reserve requirements. DODIC A066 is not clipped and is used to support training.

TYPE CLASSIFICATION DATE:

1975

ACQUISITION MANAGER: IOC, Rock Island, Illinois

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 5.56MM BALL M193 (E00701) A071				Weapon System Type:		Date: February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty				
Cost Elements		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE													
Load, Assemble, and Pack								4857	19499	0.25			
Box Metal M2A1								146	24	6.15			
SubTotal AMMO Hardware								5003					
Production Support Costs								41			17		
Production Engineering								3					
Quality Assurance								3					
Interim Transportation								30					
Industrial Stock Support													
SubTotal Prod. Support								77			17		
TOTAL								5080		0.26	17		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Ctg 5.56MM Ball M193 (E00701) A071								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Specs Avail Date	RFP Issue Date
Fiscal Years										
Load, Assemble, and Pack FY 00	Alliant (Lake City AAP) Independence, MO	SS/FP	IOC	Jan-00	Oct-00	19499	0.25	Y		Oct 99
Box Metal M2A1 FY 00	TBS	C/FP	IOC	Mar-00	Jul-00	24	6.15	Y		Oct 99
REMARKS: TBS - To Be Selected										

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION /Ammunition / 41300132				P-1 Line Item Nomenclature: CTG 5.56MM BALL M193 A066				Weapon System Type:		Date: February 2000	
ID		FY 98		FY 99		FY 00		FY 01		FY 01		FY 01		FY 01	
Cost Elements		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
AMMUNITION HARDWARE					10852	55649	0.20	12685	57921	0.22					
Load, Assemble, and Pack					387	70	5.57	445	72	6.15					
Box Metal M2A1															
SubTotal AMMO Hardware					11239			13130							
Production Support Costs															
Production Engineering					1287			160						51	
Quality Assurance					7			5							
Interim Transportation					6			8							
Industrial Stock Support					225			190							
SubTotal Prod. Support					1525			363						51	
TOTAL					12764		0.23	13493		0.23				51	

Exhibit P-5a, Budget Procurement History and Planning										Date:											
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						Date:											
PROCUREMENT OF AMMUNITION /Ammunition / 41300132				CTG 5.56MM BALL M193						February 2000											
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY		Unit Cost \$		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
Fiscal Years																					
Load, Assemble, and Pack		Olin Corp (Lake City AAP)		SS/CPAF		IOC		Mar-99		Oct-99		23714		0.20						Jan 99	
FY 99		Independence, MO																			
FY 99		Alliant (Lake City AAP)		SS/FP		IOC		Jul-99		Apr-00		31935		0.20						May 99	
FY 00		Independence, MO																			
		Alliant (Lake City AAP)		SS/FP		IOC		Jan-00		Oct-00		57921		0.22		Y				Oct 99	
		Independence, MO																			
Box Metal M2A1		Brockway Standard		C/FP		IOC		Mar-99		Sep-99		70		5.57						Jan 99	
FY 99		Homerville, GA																			
FY 00		TBS		C/FP		IOC		Mar-00		Jul-00		72		6.15		Y				Oct 99	
REMARKS: TBS - To Be Selected																					

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 5.56MM BLANK M200 (E01100)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	3133758			31336	10863	55614	75123	74969	74941	73976		3530580	
Gross Cost	291.7	0.0	0.0	10.2	2.0	6.0	8.0	8.1	8.7	8.4	0.0	343.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	291.7	0.0	0.0	10.2	2.0	6.0	8.0	8.1	8.7	8.4	0.0	343.1	
Initial Spares													
Total Proc Cost	291.7	0.0	0.0	10.2	2.0	6.0	8.0	8.1	8.7	8.4	0.0	343.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This cartridge is used for simulated firing in training maneuvers and for saluting purposes in the M16 Series Rifle and Squad Automatic Weapon. A blank-firing attachment on the weapon is required for firing automatic or semi-automatic weapons. The cartridge can be identified by the rose petal (rosette crimp) closure on the mouth and by the identification knurl about one-half inch from the base of the cartridge. The mouth of the cartridge is sealed and identified with lacquer. This item is Code A, approved for service use.

JUSTIFICATION: This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: Prior to 1977

ACQUISITION MANAGER: IOC, Rock Island, Illinois

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Date: February 2000				
WBS Cost Elements: Fiscal Years					P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 (E01100)				
Contract Method and Type	Contractor and Location	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
SS/FP	Alliant (Lake City AAP) Independence, MO	IOC	Jul-99	Apr-00	17246	0.15			Feb 99
SS/CPAF	Olin Corp (Lake City AAP) Independence, MO	IOC	Sep-99	Jan-00	14090	0.15			Jul 99
SS/FP	Alliant (Lake City AAP) Independence, MO	IOC	Jan-00	Oct-00	10863	0.17	Y		Oct 99
SS/FP	Alliant (Lake City AAP) Independence, MO	IOC	Nov-00	Oct-01	55614	0.10	Y		Oct 00
C/FP	Brockway Standard Homerville, GA	IOC	Mar-99	Sep-99	28	5.57			Jan 99
C/FP	TBS	IOC	Mar-00	Jul-00	10	6.15	Y		Oct 99
C/FP	TBS	IOC	Jan-01	Jul-01	49	6.47	Y		Oct 00
REMARKS: TBS - To Be Selected									

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE															P-1 Item Nomenclature: CTG 5.56MM BLANK M200 (E01100)										Date: February 2000									
COST ELEMENTS															Fiscal Year 00					Fiscal Year 1										L				
															Calendar Year 00					Calendar Year 1					Calendar Year 1					A				
M	F	R	FY	S	QTY	ACCEP.	BAL	O	N	D	J	F	M	A	M	J	J	A	S	T	E	R												
								C	O	V	C	A	E	A	N	B	R	A	P	A	U	U	G											
								C	O	V	C	A	E	A	N	B	R	A	P	A	U	U	G	P										
Load, Assemble, and Pack																																		
1								99P	A	14.1		2.1	5.6	6.4																				
2								99	A	17.2																								
2								00	A	10.9																								
2								01	A	55.6																								
2								00	AF	5.5																								
2								01	AF	13.2																								
1								99	MC	6.23	6.23																							
2								00	MC	4.9																								
2								01	MC	14.7																								
1								99P	SOF	1.84	1.84																							
2								99	SOF	2.0		2.0																						
2								00	SOF	3.0																								
2								01	SOF	2.0																								
1								99	OTH	1.6	1.6																							
1								99	FMS	0.14	0.14																							

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature:		Date:																											
										CTG 5.56MM BLANK M200 (E01100)		February 2000																											
MFR	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03																					
						Calendar Year 02						Calendar Year 03						Calendar Year 02						Calendar Year 03															
						O	N	D	J	F	M	A	P	A	M	J	J	A	S	O	N	D	J	F	M	A	P	A	M	J	J	A	S						
C	T	V	C	E	A	N	C	O	N	D	E	A	N	O	C	O	N	D	E	A	N	C	O	N	D	E	A	N	O										
Load, Assemble, and Pack																																							
1	99P	A	14.1	14.1																																			
2	99	A	17.2	17.2																																			
2	00	A	10.9	10.9																																			
2	01	A	55.6		55.6																																		
2	00	AF	5.5	5.5																																			
2	01	AF	13.2		13.2																																		
1	99	MC	6.23	6.23																																			
2	00	MC	4.9	4.9																																			
2	01	MC	14.7		14.7																																		
1	99P	SOF	1.84	1.84																																			
2	99	SOF	2.0	2.0																																			
2	00	SOF	3.0	3.0																																			
2	01	SOF	2.0	2.0	2.0																																		
1	99	OTH	1.6	1.6																																			
1	99	FMS	0.14	0.14																																			
REACHED																																							
NAME / LOCATION										PRODUCTION RATES										MFR																			
										MIN.										1-8-5										MAX.									
1 Lake City AAP, MO																				21.20										68.30									
2 Alliant (Lake City AAP), MO																				21.20										68.30									

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 5.56MM BLANK M200 LINKED FISAW (E01101)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	210558	2560	38594	32215	61049	60548	58490	60280	27560	26545		578399	
Gross Cost	54.1	1.0	13.5	12.4	17.9	15.1	14.7	15.3	7.2	7.2	0.0	158.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	54.1	1.0	13.5	12.4	17.9	15.1	14.7	15.3	7.2	7.2	0.0	158.4	
Initial Spares													
Total Proc Cost	54.1	1.0	13.5	12.4	17.9	15.1	14.7	15.3	7.2	7.2	0.0	158.4	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
<p>The 5.56mm blank M200 round is a standard blank cartridge currently used during training to simulate live-ammunition noises and flash. This round is linked in 200 round belts and loaded into a plastic ammunition container that attached directly to the M249 Squad Automatic Weapon (SAW). Four plastic containers are packed in a PA108 container. The M249 SAW is a lightweight, belt-fed, one-man operable machine gun. This item is Code A, approved for service use.</p>													
JUSTIFICATION:													
<p>This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.</p>													
TYPE CLASSIFICATION DATE: 1982													
ACQUISITION MANAGER: IOC, Rock Island, Illinois													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)			Weapon System Type:			Date: February 2000		
ID	CD		FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Elements			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE Complete Round						11559	32215	0.36	17600	61049	0.29	14719	60548	0.24
SubTotal AMMO Hardware						11559			17600			14719		
Production Support Costs Production Engineering Quality Assurance Industrial Stock Support						592 4 231			128 5 255			142 37 213		
SubTotal Prod. Support						827			388			392		
TOTAL						12386		0.38	17988		0.29	15111		0.25

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG 5.56MM BLANK M200 LINKED F/SAW (E01101)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Load, Assemble, and Pack										
FY 99	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC	IOC	Mar-99	Oct-99	15540	0.36			Jan 99
FY 99	Alliant (Lake City AAP) Independence, MO	SS/FP IOC	IOC	Jul-99	Apr-00	16675	0.36			Feb 99
FY 00	Alliant (Lake City AAP) Independence, MO	SS/FP IOC	IOC	Jan-00	Oct-00	61049	0.29	Y		Oct 99
FY 01	Alliant (Lake City AAP) Independence, MO	SS/FP IOC	IOC	Nov-00	Oct-01	60548	0.24	Y		Oct 00
REMARKS:										

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: CTG 5.56MM BLANK M200 LINKED FISAW (E01101)										Date: February 2000									
COST ELEMENTS										Fiscal Year 00										Fiscal Year 01									
										Calendar Year 00										Calendar Year 01									
M	F	R	FY	S	PROC QTY x1000	ACCEP. PRIOR TO AS OF 1 OCT	BAL DUE 1 OCT	O N D E C A M J J A S O N D E C A M J																					

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 2000
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												CTG 5.56MM BALL M855 LINKED FSAW (E04603)
Code:												Other Related Program Elements:
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	46016		9730	16317	29182	6250	12572	8068	11426	9997		149558
Gross Cost	16.1	0.0	4.4	8.0	10.6	2.0	4.0	2.8	3.6	3.6	0.0	55.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	16.1	0.0	4.4	8.0	10.6	2.0	4.0	2.8	3.6	3.6	0.0	55.1
Initial Spares												
Total Proc Cost	16.1	0.0	4.4	8.0	10.6	2.0	4.0	2.8	3.6	3.6	0.0	55.1
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
The Squad Automatic Weapon (SAW) ball round, M855, has a steel, conical insert in the ogive of the bullet. This round will be linked in 200 round belts using the M27 link. This item is code A, approved for service use.												
JUSTIFICATION:												
This is a training unique item; not used in combat. This round is used primarily for training in areas where a fire hazard exists if the tracer round were to be used. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.												
TYPE CLASSIFICATION DATE: 1982												
ACQUISITION MANAGER: IOC, Rock Island, Illinois												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000		
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:										
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG 5.56MM BALL M855 LINKED F/SAW (E04603)										
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years												
Load, Assemble, and Pack												
FY 99		Olin Corp (Lake City AAP) Independence, MO		SS/CPAF	IOC	Mar-99	Jun-99	12453	0.45			Jan 99
FY 99		Alliant (Lake City AAP) Independence, MO		SS/FP	IOC	Jul-99	Apr-00	3864	0.45			May 99
FY 00		Alliant (Lake City AAP) Independence, MO		SS/FP	IOC	Jan-00	Oct-00	29182	0.35	Y		Oct 99
FY 01		Alliant (Lake City AAP) Independence, MO		SS/FP	IOC	Nov-00	Oct-01	6250	0.31	Y		Oct 00
REMARKS:												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 5.56MM 4 BALL M855/1 TRACER M856 FIS (E04604)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	288356	36704	2403	31588	79802	69459	64634	63369	64082	62436		762833	
Gross Cost	106.3	19.1	0.7	16.0	32.0	36.6	34.3	34.1	35.0	34.9	0.0	349.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	106.3	19.1	0.7	16.0	32.0	36.6	34.3	34.1	35.0	34.9	0.0	349.0	
Initial Spares													
Total Proc Cost	106.3	19.1	0.7	16.0	32.0	36.6	34.3	34.1	35.0	34.9	0.0	349.0	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The M855 ball and M856 tracer rounds are linked for use in the lightweight, one-man operable M249 Squad Automatic Weapon (SAW). The ball round has a steel, conical insert in the ogive of the bullet, which increases helmet penetration substantially compared to the 5.56mm, M193 ball round. The tracer round M856 has a longer tracer column and a improved pyrotechnic mixture, which results in an increased daylight trace range compared to the 5.56mm M196 tracer round. The rounds are linked in a 200 round belt using the M27 link and are loaded into a plastic container which attached directly to the M249 SAW. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY01 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

ACQUISITION MANAGER: IOC, Rock Island, Illinois

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 5.56MM 4 BALL M855/1 TRACER M856 F/S (E04604)				Weapon System Type:		Date: February 2000	
ID	CD	FY 98			FY 99			FY 00			FY 01		
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Elements		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE Complete Round					15586	31588	0.49	31426	79802	0.39	35959	69459	0.52
SubTotal AMMO Hardware					15586			31426			35959		
Production Support Costs													
Production Engineering					81			141			44		
Quality Assurance					34			4			90		
Industrial Stock Support					312			456			521		
SubTotal Prod. Support					427			601			655		
TOTAL					16013		0.51	32027		0.40	36614		0.53

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / / 1 / Ammunition		CTG 5.56MM 4 BALL M855/1 TRACER M856 F/S (E04604)								
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Complete Round FY 99	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF IOC		Feb-99	May-99	18110	#.49			Dec 98
FY 99	Alliant (Lake City AAP) Independence, MO	SS/FP IOC		Jul-99	Apr-00	13478	#.59			Feb 99
FY 00	Alliant (Lake City AAP) Independence, MO	SS/FP IOC		Jan-00	Oct-00	79802	0.39	Y		Oct 99
FY 01	Alliant (Lake City AAP) Independence, MO	SS/FP IOC		Nov-00	Oct-01	69459	0.52	Y		Oct 00
REMARKS: # Actual Contract Price for multiple producers										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 5.56MM BALL M855 FM16A2 (E04601)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	940541	42984	105822	78149	107418	149295	156730	156452	156838	150272		2044501	
Gross Cost	244.6	16.8	38.1	31.0	32.9	31.6	33.5	33.7	34.0	34.0	0.0	530.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	244.6	16.8	38.1	31.0	32.9	31.6	33.5	33.7	34.0	34.0	0.0	530.2	
Initial Spares													
Total Proc Cost	244.6	16.8	38.1	31.0	32.9	31.6	33.5	33.7	34.0	34.0	0.0	530.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The M855 ball has a steel conical insert in the ogive of the bullet which increases the helmet-penetration range substantially compared to the 5.56mm M193 ball round. This cartridge is identified by a green bullet tip and is intended for use against personnel and non-armored targets. This item is used in the M16A2 rifle. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY01 procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

ACQUISITION MANAGER: IOC, Rock Island, Illinois

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 5.56MM BALL M855 F/M16A2 (E04601)				Weapon System Type:		Date: February 2000	
ID	cd	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1mil	\$	\$000	x1mil	\$	\$000	x1mil	\$	\$000	x1mil	\$
		AMMUNITION HARDWARE Load, Assemble, and Pack Box Metal M2A1				27594 578	78	0.35 6.06	30850 806	107	0.29 6.15	29725 1179	149	0.20 6.47
		SubTotal AMMO Hardware				28172			31656			30904		
		Production Support Costs Production Engineering Quality Assurance Interim Transportation Industrial Stock Support				2190 72 8 563			716 80 15 459			161 77 12 448		
		SubTotal Prod. Support				2833			1270			698		
		TOTAL				31005		0.40	32926		0.31	31602		0.21

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: CTG 5.56MM BALL M855 FIM16A2 (EO4601)			Date: February 2000		
WBS Cost Elements: Fiscal Years		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1mil	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble, and Pack											
FY 99		Olin Corp (Lake City AAP) Independence, MO	SS/CPAF	IOC	Feb-99	Sep-99	38	0.35			Dec 98
FY 99		Alliant (Lake City AAP) Independence, MO	SS/FP	IOC	Jul-99	Apr-00	40	0.35			May 99
FY 00		Alliant (Lake City AAP) Independence, MO	SS/FP	IOC	Jan-00	Oct-00	107	0.29	Y		Oct 99
FY 01		Alliant (Lake City AAP) Independence, MO	SS/FP	IOC	Nov-00	Oct-01	149	0.20	Y		Oct 00
Box Metal M2A1											
FY 99		Brockway Standard Homerville, GA	C/FP	IOC	Mar-99	Jul-99		6.06			Jan 99
FY 00		TBS	C/FP	IOC	Mar-00	Jul-00		6.15	Y		Oct 99
FY 01		TBS	C/FP	IOC	Jan-01	Jul-01		6.47	Y		Oct 00
REMARKS: TBS - To Be Selected											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000		
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		CTG, 7.62MM, ALL TYPES (E02000)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:			
Program Elements for Code B Items:												Code:			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty															
Gross Cost	1330.9	12.0	1.1	12.4	8.5	9.0	15.4	15.6	30.9	31.4	0.0	1467.2			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	1330.9	12.0	1.1	12.4	8.5	9.0	15.4	15.6	30.9	31.4	0.0	1467.2			
Initial Spares															
Total Proc Cost	1330.9	12.0	1.1	12.4	8.5	9.0	15.4	15.6	30.9	31.4	0.0	1467.2			
Flyaway U/C															
Wpn Sys Proc U/C															

DESCRIPTION:

This budget line includes 7.62MM ALL TYPES

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 7.62MM, ALL TYPES (E02000)			Weapon System Type:			Date: February 2000		
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		CTG 7.62MM 4 BALL/1 TRACER F/MINIGUN				6044	11622	0.52	1650	4273	0.39	1682	3395	0.50
		CTG 7.62MM BALL M80 LINKED/M13				48	5405	0.45	2421	5405	0.45	3414	6219	0.55
		CTG 7.62MM 4 BALL/1 TRACER F/OHF				5699	1931	0.57	1103	1931	0.57	945	1971	0.48
		CTG 7.62MM BLANK M82 LINKED/M13				567	11630	0.49	3259	8861	0.37	2530	6862	0.37
		CTG 7.62MM SHORT RANGE TNG 4B/1T				260	51		29	51		419	301	
TOTAL						12358			8462			8990		

Exhibit P-40, Budget Item Justification Sheet											Date:	
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:			February 2000						
PROCUREMENT OF AMMUNITION / 1 / Ammunition			CTG 7.62MM BLANK M82 LINKED/M13 (E01902)									
Program Elements for Code B Items:			Other Related Program Elements:									
Code:												
		FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1902583		920	11630	8861	6862	15930	15995	15961	15940		1994642
Gross Cost	232.6	0.0	0.5	5.7	3.3	2.5	5.7	5.7	5.7	5.9	0.0	267.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	232.6	0.0	0.5	5.7	3.3	2.5	5.7	5.7	5.7	5.9	0.0	267.6
Initial Spares												
Total Proc Cost	232.6	0.0	0.5	5.7	3.3	2.5	5.7	5.7	5.7	5.9	0.0	267.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This cartridge consists of a primer and propellant contained in a brass case shaped to conform to the configuration of the service round. The propellant is held in by a wad. The mouth of the cartridge is sealed and crimped. The Blank Firing Attachment (BFA) M21 is installed on the M240 machine gun to enable blank ammunition to be fired and to provide back pressure to sustain continuous firing. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training unique item, not used in combat. FY 01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:
1958

ACQUISITION MANAGER:
IOC, Rock Island, Ill

This cartridge consists of a primer and propellant contained in a brass case shaped to conform to the configuration of the service round. The propellant is held in by a wad. The mouth of the cartridge is sealed and crimped. The Blank Firing Attachment (BFA) M21 is installed on the M240 machine gun to enable blank ammunition to be fired and to provide back pressure to sustain continuous firing. This item is Code A, approved for service use.

This is a training unique item, not used in combat. FY 01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

ACQUISITION MANAGER:
IOC, Rock Island, Ill

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 7.62MM BLANK M82 LINKED/M13 (E01902)				Weapon System Type:		Date: February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
		TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty				
Cost Elements		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$000	x1000	\$	\$
AMMUNITION HARDWARE													
Complete Round					5395	11630	0.46	2893	8861	2294	6862	0.33	0.33
SubTotal AMMO Hardware					5395			2893		2294			
Production Support Costs													
Production Engineering					180			319		168			
Quality Assurance					5			5		35			
Industrial Stock Support					119			42		33			
SubTotal Prod. Support					304			366		236			
TOTAL					5699		0.49	3259		2530		0.37	0.37

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000						
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:														
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG 7.62MM BLANK M82 LINKED/M13 (E01902)														
WBS Cost Elements:		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		Specs Avail Now?		Date Revisn Avail		RFP Issue Date		
Fiscal Years																
Load, Assemble, and Pack		SS/CPAF IOC		IOC		Sep-99		Jan-00		4090		#0.46				
FY 99		Alliant (Lake City AAP)		Independence, MO		Jul-99		Apr-00		7540		#0.46				
FY 00		Alliant (Lake City AAP)		Independence, MO		Jan-00		Oct-00		8861		0.33		Y		Oct 99
FY 01		Alliant (Lake City AAP)		Independence, MO		Nov-00		Oct-01		6862		0.33		Y		Oct 00

REMARKS: TBS - TO BE SELECTED
Actual contract price for multiple producers

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								CTG 7.62MM BALL M80 LINKED M13 (E02003)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition													
Program Elements for Code B Items:				Code:		Other Related Program Elements:							
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	185483	5721		11662	5405	6219	9908	9782	9782	9773		253735	
Gross Cost	55.8	3.2	0.0	6.0	2.4	3.4	5.4	5.4	5.5	5.6	0.0	92.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	55.8	3.2	0.0	6.0	2.4	3.4	5.4	5.4	5.5	5.6	0.0	92.7	
Initial Spares													
Total Proc Cost	55.8	3.2	0.0	6.0	2.4	3.4	5.4	5.4	5.5	5.6	0.0	92.7	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This cartridge is for use in the Machine Gun Series M60, M73, M219, and M240. The straight ball M80 configuration is used in support of training. The bullet consists of a gilding-metal steel jacket with a lead-antimony slug. The cartridge case is brass and the bullet is unpainted. This item is Code A, approved for service use.													
JUSTIFICATION:													
This is a training unique item; not used in combat. FY 01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.													
TYPE CLASSIFICATION DATE: 1979													
ACQUISITION MANAGER: IOC, Rock Island, Ill													

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 7.62MM BALL M80 LINKED/M13 (E02003)				Weapon System Type:		Date: February 2000	
ID	CD		FY 98			FY 99			FY 00			FY 01			
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	
Cost Elements			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	
AMMUNITION HARDWARE Complete Round						5865	11662	0.50	2183	5405	0.40	3206	6219	0.52	
SubTotal AMMO Hardware						5865			2183			3206			
Production Support Costs															
Production Engineering						52			203			132			
Quality Assurance						2			3			30			
Industrial Stock Support						125			32			46			
SubTotal Prod. Support						179			238			208			
TOTAL						6044		0.52	2421		0.45	3414		0.55	

Exhibit P-5a, Budget Procurement History and Planning											Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:				P-1 Line Item Nomenclature: CTG 7.62MM BALL M80 LINKED/M13 (E02003)			RFP Issue Date
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail		
Complete Round FY 99	Olin Corp (Lake City AAP) Independence, MO	SS/CPAF	IOC	Mar-99	Oct-99	5288	#.41				
FY 99	Alliant (Lake City AAP) Independence, MO	SS/FP	IOC	Jul-99	Apr-00	6334	#.41				
FY 00	Alliant (Lake City AAP) Independence, MO	SS/FP	IOC	Jan-00	Oct-00	5405	0.40	Y		Sep 99	
FY 01	Alliant (Lake City AAP) Independence, MO	SS/FP	IOC	Nov-00	Oct-01	6219	0.52	Y		Oct 00	
REMARKS: TBS - TO BE SELECTED # Actual contract price for multiple producers.											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG. .50 CAL. ALL TYPES (E08000)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	409.6	4.9	13.0	17.3	23.2	10.6	24.7	29.2	27.0	26.5	0.0	586.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	409.6	4.9	13.0	17.3	23.2	10.6	24.7	29.2	27.0	26.5	0.0	586.1	
Initial Spares													
Total Proc Cost	409.6	4.9	13.0	17.3	23.2	10.6	24.7	29.2	27.0	26.5	0.0	586.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This budget line includes .50 CAL ALL TYPES

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG, .50 CAL, ALL TYPES (E08000)				Weapon System Type:		Date: February 2000	
ID	CD	FY 98			FY 99			FY 00			FY 01				
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
CTG CAL .50 BALL M33 W/M9 LINK					3662	1451	2.51	2603	1583	1.64	5928	2310	2.57		
CTG CAL .50 4 BALL/1 TRACER W/M9 LINK					13596	4944	2.75	20588	12257	1.68	4718	1555	3.03		
TOTAL					17258			23191			10646				

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature: CTG CAL .50 4 BALL/1 TRACER WIMB LINK (E07200)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	387466	2070	4378	4944	12257	1555	6793	6563	6514	6331		438871	
Gross Cost	282.9	4.9	9.2	13.6	20.6	4.7	19.2	18.8	19.0	19.0	0.0	411.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	282.9	4.9	9.2	13.6	20.6	4.7	19.2	18.8	19.0	19.0	0.0	411.9	
Initial Spares													
Total Proc Cost	282.9	4.9	9.2	13.6	20.6	4.7	19.2	18.8	19.0	19.0	0.0	411.9	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This item consists of M33 ball and M17 tracer linked 4 to 1 with the M9 link. These cartridges in the linked configuration are for training use in either vehicle mounted or ground mounted machine guns. The tracer round permits observation of the bullet's trajectory to the point of impact. The ammunition is designed for use in the M2 or M3 machine guns. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training unique item: not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:
1968

ACQUISITION MANAGER:
IOC, Rock Island, Ill

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG CAL .50 4 BALL/1 TRACER W/M9 LINK (E07200)			Weapon System Type:		Date: February 2000			
Cost Elements			FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	x1000	\$	
AMMUNITION HARDWARE Load, Assemble, and Pack Box Metal M2A1						12742 306	4944 50	2.58 6.06	19378 769	12257 125	1.58 6.15	4094 103	1555 16	2.63 6.47
SubTotal AMMO Hardware						13048			20147			4197		
Production Support Costs Production Engineering Quality Assurance Acceptance Testing Interim Transportation Industrial Stock Support						117 5 161 4 261			130 5 14 292			410 49 1 61		
SubTotal Prod. Support						548			441			521		
TOTAL						13596		2.75	20588		1.68	4718		3.03

Exhibit P-5a, Budget Procurement History and Planning																					
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:				Date: February 2000													
P-1 Line Item Nomenclature: CTG CAL .50 4 BALL/1 TRACER WM9 LINK (E07200)																					
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY x1000		Unit Cost \$		Specs Avail Now?		Date Revis Avail		RFP Issue Date	
Fiscal Years																					
Load, Assemble, and Pack																					
FY 99		Olin Corp (Lake City AAP)		SS/CPAF		IOC		Mar-99		Oct-99		2261		#1.38						Jan 99	
FY 99		Independence, MO		SS/FP		IOC		Jul-99		Apr-00		2683		#1.38						May 99	
FY 00		Alliant (LCAAP)		SS/FP		IOC		Jan-00		Oct-00		12257		1.58		Yes				Oct 99	
FY 01		Independence, MO		SS/FP		IOC		Nov-00		Oct-01		1555		2.63		Yes				Oct 00	
Box Metal M2A1																					
FY 99		Brockway Standard		C/FP		IOC		Apr-99		Aug-99		50		6.06						Feb 99	
FY 00		Homerville, GA		C/FP		IOC		Mar-00		Jul-00		125		6.15		Yes				Oct 99	
FY 01		TBS		C/FP		IOC		Jan-01		Jul-01		16		6.47		Yes				Oct 00	

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG CAL .50 BALL M33 W/M9 LINK (E07100)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	34081		447	1451	1583	2310	2143	2033	1939	1959		47946	
Gross Cost	43.8	0.0	0.9	3.7	2.6	5.9	5.5	5.3	5.2	5.3	0.0	78.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	43.8	0.0	0.9	3.7	2.6	5.9	5.5	5.3	5.2	5.3	0.0	78.1	
Initial Spares													
Total Proc Cost	43.8	0.0	0.9	3.7	2.6	5.9	5.5	5.3	5.2	5.3	0.0	78.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The caliber .50 ball M33 is linked with the M9 links for use in Army training with caliber .50 machine guns, M2 and M3. These rounds are also used in function test firing of the M2 and M3 machine guns. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1951

ACQUISITION MANAGER:

IOC, Rock Island, Ill

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: CTG CAL .50 BALL M33 W/M9 LINK (E07100)				RFP Issue Date
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	
Fiscal Years										
Load, Assemble, and Pack										
FY 99	Olin Corp (LCAAP) Independence, MO	SS/CPAF IOC	IOC	Mar-99	Oct-99	583	#1.27			Jan 99
FY 99	Alliant (LCAAP)	SS/FP IOC	IOC	Jul-99	Apr-00	868	#1.27			May 99
FY 00	Independence, MO Alliant (LCAAP)	SS/FP IOC	IOC	Jan-00	Oct-00	1583	1.44	Yes		Oct 99
FY 01	Independence, MO Alliant (LCAAP)	SS/FP IOC	IOC	Nov-00	Oct-01	2310	2.37	Yes		Oct 00
Box Metal M2A1										
FY 99	Brockway Standard Homerville, GA	C/FP IOC	IOC	Apr-99	Aug-99	15	6.06	Yes		Feb 99
FY 00	TBS	C/FP IOC	IOC	Mar-00	Jul-00	16	6.15	Yes		Oct 99
FY 01	TBS	C/FP IOC	IOC	Jan-01	Jul-01	24	6.47	Yes		Oct 00
REMARKS: TBS - To Be Selected # Actual contract price for multiple producers										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000		
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		CTG, 25MM, ALL TYPES (E0200)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Code:		Other Related Program Elements:	
Program Elements for Code B Items:															
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty															
Gross Cost	1076.7	79.9	77.2	82.0	47.2	57.8	40.0	40.4	40.7	41.0	0.0	1582.9			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	1076.7	79.9	77.2	82.0	47.2	57.8	40.0	40.4	40.7	41.0	0.0	1582.9			
Initial Spares															
Total Proc Cost	1076.7	79.9	77.2	82.0	47.2	57.8	40.0	40.4	40.7	41.0	0.0	1582.9			
Flyaway U/C															
Wpn Sys Proc U/C															
DESCRIPTION:															
This budget line includes 25MM ALL TYPES.															

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 25MM, ALL TYPES (E08200)			Weapon System Type:		Date: February 2000		
Cost Elements			FY 98		FY 99		FY 00		FY 01				
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	\$000
CTG 25MM TP-T M793					17548	1228	14.29	16365	1216	13.46	15819	1132	13.97
CTG 25MM TPDS-T M910					42892	2558	16.76	579	35	16.75	18311	1109	16.51
CTG 25MM APFSDS-T M919					20623	160	128.89	30285	253	119.70	23650	209	118.25
CTG 25MM APDS-T M791					985	65	15.23						
TOTAL					82048			47229			57780		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000		
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:		CTG 25MM TP-T M793 (E08203)	
Program Elements for Code B Items:												Code:		Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty	18159	487	1256	1228	1216	1132	1193	1205	1066	1067		28009			
Gross Cost	256.0	7.2	19.6	17.5	16.4	15.8	16.0	16.1	16.4	16.8	0.0	397.8			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	256.0	7.2	19.6	17.5	16.4	15.8	16.0	16.1	16.4	16.8	0.0	397.8			
Initial Spares															
Total Proc Cost	256.0	7.2	19.6	17.5	16.4	15.8	16.0	16.1	16.4	16.8	0.0	397.8			
Flyaway U/C															
Wpn Sys Proc U/C															

DESCRIPTION:

The M793 cartridge is a percussion primed 25mm Target Practice-Traced (TP-T) cartridge with M28 link for use in the M242 gun which is mounted on the Bradley Fighting Vehicle System. The M793 training round is ballistically matched to the M792 High Explosive Incendiary-Tracer (HEI-T) ammunition. This round will be packaged/shipped in the M621 plastic container, 30 rounds per container. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:

1979

ACQUISITION MANAGER:

IOC, Rock Island, Ill

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 25MM TP-T M793 (E08203)				Weapon System Type:		Date: February 2000										
Cost Elements		FY 98		FY 99		FY 00		FY 01		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		
		TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty													
ID	CD	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE																						
Load, Assemble, and Pack																						
Container PA125																						
Pallet Steel w/Adapter																						
SubTotal AMMO Hardware																						
Production Support Costs																						
Production Engineering																						
Quality Assurance																						
Acceptance Testing																						
Interim Transportation																						
Industrial Stock Support																						
SubTotal Prod. Support																						
TOTAL																						

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type:			P-1 Line Item Nomenclature: CTG 25MM TP-T M793 (E08203)		
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?
Fiscal Years										Date Revis Avail
Load, Assemble, and Pack										
FY 99		Primex Tech, Marion IL		CM-1/FP	IOC	Aug-99	Jun-00	675	10.90 #	May 99
FY 99*		Alliant Tech (JAAP), Joliet, IL		CM-1/FP	IOC	Aug-99	Jun-00	553	12.45#	May 99
FY 00*		TBS		CM-2/FP	IOC	Mar-00	May-01	1216	11.10	Oct 99
FY 01*		TBS		CM-3/FP	IOC	Mar-01	May-02	1132	11.10	Oct 00
Container PA125										
FY 99		Conco INC Louisville KY		C/FP	IOC	Aug-99	Mar-00	41	43.31	May 99
FY 00		TBS		C/FP	IOC	Jul-00	Mar-01	41	43.96	Oct 99
FY 01		TBS		C/FP	IOC	Jul-01	Mar-02	38	43.23	Oct 00
Pallet Steel w/Adapter										
FY 99		Behlen Mfg, Columbus, NE		C/FP	IOC	Sep-99	Mar-00	1	404.76	Jun 99
FY 00		TBS		C/FP	IOC	Jul-00	Mar-01	1	410.84	Oct 99
FY 01		TBS		C/FP	IOC	Jul-01	Mar-02	1	412.88	Oct 00
REMARKS: TBS - To Be Selected *This is a below-threshold 3-year Multiyear contract. # Actual contract price for multiple producers										

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE																			
P-1 Item Nomenclature: CTG 25MM TP-T M793 (E08203)																			
Date: February 2000																			
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 00											
								Calendar Year 00											
								O	N	D	J	F	M	A	P	R	Y	N	L
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 01											
								Calendar Year 01											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02											
								Calendar Year 02											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 03											
								Calendar Year 03											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 04											
								Calendar Year 04											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 05											
								Calendar Year 05											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 06											
								Calendar Year 06											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 07											
								Calendar Year 07											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 08											
								Calendar Year 08											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 09											
								Calendar Year 09											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 10											
								Calendar Year 10											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 11											
								Calendar Year 11											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 12											
								Calendar Year 12											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 13											
								Calendar Year 13											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 14											
								Calendar Year 14											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 15											
								Calendar Year 15											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 16											
								Calendar Year 16											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 17											
								Calendar Year 17											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 18											
								Calendar Year 18											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 19											
								Calendar Year 19											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 20											
								Calendar Year 20											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 21											
								Calendar Year 21											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 22											
								Calendar Year 22											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 23											
								Calendar Year 23											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 24											
								Calendar Year 24											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 25											
								Calendar Year 25											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 26											
								Calendar Year 26											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 27											
								Calendar Year 27											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 28											
								Calendar Year 28											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 29											
								Calendar Year 29											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 30											
								Calendar Year 30											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 31											
								Calendar Year 31											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 32											
								Calendar Year 32											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 33											
								Calendar Year 33											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 34											
								Calendar Year 34											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 35											
								Calendar Year 35											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 36											
								Calendar Year 36											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 37											
								Calendar Year 37											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 38											
								Calendar Year 38											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 39											
								Calendar Year 39											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 40											
								Calendar Year 40											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 41											
								Calendar Year 41											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 42											
								Calendar Year 42											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 43											
								Calendar Year 43											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 44											
								Calendar Year 44											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 45											
								Calendar Year 45											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 46											
								Calendar Year 46											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 47											
								Calendar Year 47											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 48											
								Calendar Year 48											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 49											
								Calendar Year 49											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 50											
								Calendar Year 50											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 51											
								Calendar Year 51											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 52											
								Calendar Year 52											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 53											
								Calendar Year 53											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 54											
								Calendar Year 54											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 55											
								Calendar Year 55											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 56											
								Calendar Year 56											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 57											
								Calendar Year 57											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 58											
								Calendar Year 58											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 59											
								Calendar Year 59											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 60											
								Calendar Year 60											
								J	A	E	A	N	B	R	R	Y	N	L	G
MFR	NAME / LOCATION	M	FY	S	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT													

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								CTG 25MM TPDS-T M910 (E08204)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition				Other Related Program Elements:									
Program Elements for Code B Items:				Code:									
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	11821	2323	1390	2558	35	1109	1527	1544	1337	1299		24943	
Gross Cost	209.4	39.9	27.6	42.9	0.6	18.3	24.0	24.3	24.2	24.2	0.0	435.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	209.4	39.9	27.6	42.9	0.6	18.3	24.0	24.3	24.2	24.2	0.0	435.4	
Initial Spares													
Total Proc Cost	209.4	39.9	27.6	42.9	0.6	18.3	24.0	24.3	24.2	24.2	0.0	435.4	
Flyaway UIC													
Wpn Sys Proc UIC													
DESCRIPTION: The 25mm Armor Piercing (AP) training round is ballistically matched to the 25mm cartridge Armor Piercing Discarding Sabot-Tracer (APDS-T) M791 and the Armor Piercing Fin Stabilized Discarding Sabot, with Tracer M919. The M910 is used in gunnery training and qualification of the M2/M3 Bradley Fighting Vehicles in lieu of the M791 and the M919. This round supports live Bradley Fighting Vehicle training at smaller facilities that cannot use the long range combat cartridges. This item is Code A, approved for service use.													
JUSTIFICATION: This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The maximum range of the current APDS-T and the follow-on Armor Piercing Fin Stabilized Discarding Sabot-Tracer (APFSDS-T) cartridges precludes their use on most training ranges. Bradley Fighting Vehicle crews cannot obtain meaningful training without this round.													
TYPE CLASSIFICATION DATE: 1988													
ACQUISITION MANAGER: IOC, Rock Island, Ill													

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG 25MM TPDS-T M910 (E08204)		Weapon System Type:		Date: February 2000		
Cost Elements		FY 98		FY 99		FY 00		FY 01		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE										
Load, Assemble, and Pack										
Container PA125		34330	2558	13.42	464	35	13.42	14881	1109	13.42
Pallet Steel w/Adapter		3696	85	43.25	51	1	43.96	1601	37	43.23
		830	2	405.27	12		410.84	367	1	412.88
SubTotal AMMO Hardware		38856			527			16849		
Production Support Costs										
Production Engineering		3204	43					1188		
Quality Assurance		4						10		
Interim Transportation		68	1					20		
Industrial Stock Support		760	8					244		
SubTotal Prod. Support		4036			52			1462		
TOTAL		42892		16.76	579		16.75	18311		16.51

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:			P-1 Line Item Nomenclature: CTG 25MM TPDS-T M910 (E08204)			
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?
Load, Assemble, and Pack (LAP)										
FY 99	TBS	Primex Tech, Marion, IL		CM-2/FP	IOC	Mar-00	May-01	207	13.42	
FY 99		Alliant Tech (JAAP), Joliet IL		CM-1/FP	IOC	Aug-99	Aug-00	1293	13.05#	
FY 99		TBS		CM-1/FP	IOC	Aug-99	Aug-00	1058	14.39#	
FY 00		TBS		CM-2/FP	IOC	Mar-00	May-01	35	13.42	Y
FY 01		TBS		CM-3/FP	IOC	Mar-01	May-02	1109	13.42	Y
Container PA125										
FY 99	TBS	Conco, Inc, Louisville, KY		C/FP	IOC	Jul-00	Mar-01	7	42.61	
FY 99				C/FP	IOC	Aug-99	Mar-00	79	43.31	
FY 00		TBS		C/FP	IOC	Jul-00	Mar-01	1	43.96	Y
FY 01		TBS		C/FP	IOC	Jul-01	Mar-02	37	43.23	Y
Pallet Steel w/Adapter										
FY 99	TBS	Behlen MFG, Columbus, NE		C/FP	IOC	Jul-00	Mar-01		407.00	
FY 99				C/FP	IOC	Sep-99	Mar-00	2	404.76	
FY 00		TBS		C/FP	IOC	Jul-00	Mar-01		410.84	Y
FY 01		TBS		C/FP	IOC	Jul-01	Mar-02	1	412.88	Y
REMARKS: TBS - To Be Selected FY 99 & FY 01 are part of the 3-year Multiyear quantities for Medium Caliber ammunition. This is a below-threshold 3-year Multiyear contract. # Actual contract price for multiple producers										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000		
Appropriation / Budget Activity/Serial No:										P-1 Item Nonenditure:			CTG 25MM APFSDS-T M919 (E08210)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition															
Program Elements for Code B Items:										Code:				Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty	689	249	242	160	253	209						1802			
Gross Cost	104.7	32.8	30.0	20.6	30.3	23.7	0.0	0.0	0.0	0.0	0.0	242.1			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	104.7	32.8	30.0	20.6	30.3	23.7	0.0	0.0	0.0	0.0	0.0	242.1			
Initial Spares															
Total Proc Cost	104.7	32.8	30.0	20.6	30.3	23.7	0.0	0.0	0.0	0.0	0.0	242.1			
Flyaway U/C															
Wpn Sys Proc U/C	152.0	134.0	124.0	129.0	117.0	113.0						135.0			
DESCRIPTION:															
<p>The 25mm Armor Piercing Fin Stabilized Discarding Sabot - Tracer (APFSDS-T) M919. The M919 uses the state-of-the-art technology by incorporating high energy propellants, low drag design, aluminum sabot, and improved depleted uranium penetrator material. This item is code A, approved for service use.</p>															
JUSTIFICATION:															
<p>The M919 will replace the M791 as the primary armor piercing cartridge for use in the 25mm, M242 Automatic Gun which is mounted on the Bradley Fighting Vehicle System, thus increasing its effectiveness against light threat weapon systems and enhancing its survivability. The current M791 does not defeat the current threat.</p>															
<p>Acquisition Manager: Project Manager, Tank and Medium-Cal Armament Systems (PM-TMAS)</p>															

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 25MM APFSDS-T M919 (E08210)				Weapon System Type:		Date: February 2000									
Cost Elements				FY 98		FY 99		FY 00		FY 01		TotalCost \$000		Qty Each		UnitCost \$000		TotalCost \$000		Qty Each		UnitCost \$000	
				TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each												
AMMUNITION HARDWARE																							
1. Complete Round																							
2. Other Hardware																							
SubTotal AMMO Hardware																							
Production Support Costs																							
Production Engineering																							
Quality Assurance																							
Acceptance Testing																							
SubTotal Prod. Support																							
COST - Nonrecurring ECP's																							
SubTotal COST-Nonrecurring																							
TOTAL																							

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 25MM APFSDS-T M919 (E08210)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years											
1. COMPLETE ROUND											
FY99	PRIMEX-MARION,IL	SS/FP	ARDEC	Aug-99	Mar-00	160	109	yes	no		
FY00	PRIMEX-MARION,IL	SS/FP	ARDEC	Jan-00	Sep-00	253	107	yes	no		
FY01	PRIMEX-MARION,IL	SS/FP	ARDEC	Jan-01	Jul-01	209	101	yes	no		
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000			
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		CTG, 30MM, ALL TYPES (ER8120)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:				
Program Elements for Code B Items:												Code:				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog				
Proc Qty																
Gross Cost	231.7	13.0	10.0	10.5	5.3	9.5	9.8	9.7	9.9	10.1	0.0	319.5				
Less PY Adv Proc																
Plus CY Adv Proc																
Net Proc (P-1)	231.7	13.0	10.0	10.5	5.3	9.5	9.8	9.7	9.9	10.1	0.0	319.5				
Initial Spares																
Total Proc Cost	231.7	13.0	10.0	10.5	5.3	9.5	9.8	9.7	9.9	10.1	0.0	319.5				
Flyaway U/C																
Wpn Sys Proc U/C																
DESCRIPTION;																
This budget line includes 30MM ALL TYPES																

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG, 30MM, ALL TYPES (ER8120)				Weapon System Type:				Date: February 2000	
Cost Elements		ID	FY 98			FY 99			FY 00			FY 01			UnitCost		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost			
		cd	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
CTG 30MM TP M788						10507	913	11.50	5311	380	13.98	9517	827	11.51			
TOTAL						10507			5311			9517					

Exhibit P-40, Budget Item Justification Sheet												
Date: February 2000										P-1 Item Nomenclature: CTG 30MM TP M788 (E10100)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
Program Elements for Code B Items:												
		Code:		Other Related Program Elements:								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	7264	299	924	913	380	827	891	890	775	777		13940
Gross Cost	85.5	3.0	10.0	10.5	5.3	9.5	9.8	9.7	9.9	10.1	0.0	163.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	85.5	3.0	10.0	10.5	5.3	9.5	9.8	9.7	9.9	10.1	0.0	163.3
Initial Spares												
Total Proc Cost	85.5	3.0	10.0	10.5	5.3	9.5	9.8	9.7	9.9	10.1	0.0	163.3
Flyaway U/C												
Wpn Sys Proc U/C												
<p>DESCRIPTION:</p> <p>The 30mm Linked Target Practice (TP) M788 cartridge is an electric primed aluminum cased cartridge which is used in the 30mm M230 chain gun weapon system. The system is used as the secondary armament system on the Apache Advanced Attack Helicopter (AH-64). This item is Code A, approved for service use.</p> <p>JUSTIFICATION:</p> <p>This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.</p> <p>TYPE CLASSIFICATION DATE:</p> <p>1982</p> <p>ACQUISITION MANAGER:</p> <p>IOC, Rock Island, Ill</p>												

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 30MM TP M788 (E10100)			Weapon System Type:			Date: February 2000		
Cost Elements			FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE Complete Round						9348	913	10.23	3889	380	10.23	8463	827	10.23
SubTotal AMMO Hardware						9348			3889			8463		
Production Support Costs														
Production Engineering						524			402			920		
Quality Assurance						10			9			11		
Acceptance Testing						441			955			123		
Industrial Stock Support						184			56					
SubTotal Prod. Support						1159			1422			1054		
TOTAL						10507		11.50	5311		13.98	9517		11.51

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type: P-1 Line Item Nomenclature: CTG 30MM TP M788 (E10100)			Date: February 2000		
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Complete Round										
*FY 99	Alliant Tech (JAAP), Joliet, IL	CM-1/FP	IOC	Aug-99	Mar-00	702	10.23			May 99
FY 99	Alliant Tech (JAAP), Joliet, IL	CM-2/FP	IOC	Mar-00	Mar-01	211	10.23			Dec 99
FY 00	Alliant Tech(JAAP), Joliet, IL	CM-2/FP	IOC	Mar-00	Mar-01	380	10.23	Y		Oct 99
FY 01	Alliant Tech(JAAP), Joliet, IL	CM-3/FP	IOC	Mar-01	Mar-02	827	10.23	Y		Oct 00
REMARKS: *This is a below-threshold 3-year Multiyear contract. TBS - To Be Selected										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG, 40MM, ALL TYPES (ER8001)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	585.5	32.1	32.7	33.3	44.2	60.8	51.4	57.6	53.2	50.7	0.0	1001.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	585.5	32.1	32.7	33.3	44.2	60.8	51.4	57.6	53.2	50.7	0.0	1001.5	
Initial Spares													
Total Proc Cost	585.5	32.1	32.7	33.3	44.2	60.8	51.4	57.6	53.2	50.7	0.0	1001.5	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This budget line includes 40MM ALL TYPES

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, 40MM, ALL TYPES (ER8001)			Weapon System Type:		Date: February 2000			
Cost Elements			FY 98		FY 99		FY 00		FY 01					
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
CTG 40MM TP M918 LINKED F/MK19 MG				25207	1444	17.46	29949	1704	17.57	50585	2831	17.87	1967	3.85
CTG 40MM PRACTICE M781				5100	1126	4.53	3651	959	3.81	7578	1967	3.85	90	20.97
CTG 40MM NON-LETHAL XM1006				1300	51	25.49	1576	64	11.75	1887	90	20.97	48	15.50
CTG 40MM PRACTICE M385A1				790	65	12.16	465	31	14.88	738	48	15.50		
CTG 40MM CSM651				400										
CTG 40MM HEDP M430A1 F/MK19 MG				525			8534	421	20.29					
TOTAL				33322			44175							60788

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nonendurance:										CTG 40MM TP M918 LINKED FMK19 MG (E71100)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	8461	2124	1331	1444	1704	2831	2426	2428	2427	2221		27397	
Gross Cost	127.0	30.9	24.4	25.2	29.9	50.6	43.9	44.6	45.3	42.7	0.0	464.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	127.0	30.9	24.4	25.2	29.9	50.6	43.9	44.6	45.3	42.7	0.0	464.5	
Initial Spares													
Total Proc Cost	127.0	30.9	24.4	25.2	29.9	50.6	43.9	44.6	45.3	42.7	0.0	464.5	
Flyaway UIC													
Wpn Sys Proc UIC													
DESCRIPTION:													
<p>The 40mm Target Practice (TP) cartridge for the MK19 machine gun is a high velocity training projectile with realistic signature effects providing sufficient flash, smoke, and sound upon impact to be seen/heard at a 1200 meter minimum range under standard atmospheric conditions and level terrain. In addition to providing audible/visual signature for day or night firing, the TP for MK19 gun will minimize hazard to troops in the training area. This item is Code A, approved for service use.</p>													
JUSTIFICATION:													
<p>This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. This cartridge is required since firing the standard service 40mm high-explosive dual-purpose (HEDP) M430 cartridge is prohibited at many training ranges. The M918 allows frequent and safe MK19 MOD 3 40mm Grenade Machine Gun and M129 Grenade launcher training.</p>													
ACQUISITION MANAGER:													
IOC, Rock Island, IL													
TYPE CLASSIFICATION DATE: 1985													

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 40MM TP M918 LINKED FMK19 MG (E71100)				Weapon System Type:		Date: February 2000	
Cost Elements				FY 98		FY 99		FY 00		FY 01					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	UnitCost
		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$	\$
AMMUNITION HARDWARE															
Load, Assemble, and Pack															
Proj Assy															
6499 12413 1667 34 348 2303 789 711 24764															
Ctg Case M169															
Ctg Case Assy															
M2 SP .019 f/40MM (LB)															
*M2 SP .019 f/40MM (LB)															
M550 Escape Assy															
Det Stab M55															
Link M16A2															
SubTotal AMMO Hardware															
24764															
Production Support Costs															
Production Engineering															
Quality Assurance															
Acceptance Testing															
Interim Transportation															
Industrial Stock Support															
SubTotal Prod. Support															
791															
COST - Nonrecurring															
Government Furnished Material															
SubTotal COST-Nonrecurring															
-348															
-348															
TOTAL															
25207															
17.46															
29949															
17.57															
50585															
17.87															

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type:			P-1 Line Item Nomenclature: CTG 40MM TP M918 LINKED F/MK19 MG (E71100)				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble, and Pack												
FY 99		American Ordnance (Milan AAP) Milan, TN		SS/FP	IOC	Sep-99	Dec-00	1444	4.50	Yes		Jul 99
FY 00		American Ordnance (Milan AAP) Milan, TN		SS/FP	IOC	Mar-00	Jul-01	1704	5.81	Yes		Oct 99
FY 01		American Ordnance (Milan AAP) Milan, TN		SS/FP	IOC	Mar-01	Jul-02	2831	17.46	Yes		Oct 00
Proj Assy** FY 99		Teknocrat Inc Palm Bay, FL		C/FP	IOC	Aug-99	Mar-00	892	#8.35			Jun 99
FY 99		JKS Ind Tampa, FL		C/FP	IOC	Dec-98	Mar-00	595	#8.35			Jun 99
FY 00		TBS		C/FP	IOC	Jul-01	Apr-02	1755	10.74	Yes		Oct 99
Ctg Case M169 FY 99		Amron Corp Waukesha, WI		C/FP	IOC	Jun-99	Dec-99	1501	1.11	Yes		Apr 99
Ctg Case Assy FY 99		American Ordnance (Milan AAP) Milan, TN		SS/FP	IOC	Jan-00	Mar-00	9	3.91	Yes		Nov 99
FY 00		American Ordnance (Milan AAP) Milan, TN		SS/FP	IOC	Jan-01	Mar-01	10	3.65	Yes		Oct 99
REMARKS:												
TBS - To Be Selected												
**Pacing Component												
# FY 99 - Actual contract price for multiple producers.												

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type:			P-1 Line Item Nomenclature: CTG 40MM TP M918 LINKED FMK19 MG (E71100)				
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Reven Avail	RFP Issue Date
*M2 SP .019 f40MM (LB) FY 99 FY 00 FY 01		Stock Issue		N/A		N/A	N/A	22	N/A	Yes		
		Stock Issue		N/A		N/A	N/A	26	N/A	Yes		
		Stock Issue		N/A		N/A	N/A	42	N/A	Yes		
M550 Escape Assy FY 99		Dayron Corp Orlando, FL		C/FP	IOC	Oct-99	Mar-00	1521	1.51	Yes		Aug 99
Det Stab M55 FY 99		Day & Zimmerman (Lone Star AAP) Texarkana, TX		SS/FP	IOC	Mar-99	Oct-99	1523	0.52	Yes		Jan 99
Link M16A2 FY 99		Valentec Wells Costa Mesa, CA		C/FP	IOC	Jul-99	Jan-00	1530	0.46	Yes		May 99
REMARKS: *Government Furnished Material TBS - To Be Selected												

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: CTG 40MM TP M918 LINKED FMK19 MG (E71100)										Date: February 2000														
COST ELEMENTS				MFR	FY	SERV	PROC QTY x1000	ACCEP. PRIOR TO 1 OCT	BAL DUE AS OF 1 OCT	Fiscal Year 02												Fiscal Year 03												
										Calendar Year 02						Calendar Year 03						Calendar Year 02						Calendar Year 03						
										ON	DE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP		
															</																			

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000	
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		CTG 40MM PRACTICE M781 (E74200)
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:		
Program Elements for Code B Items:												Code:		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog		
Proc Qty	13350	585	1709	1126	959	1967	1151	1298	1395	1350		24890		
Gross Cost	31.7	1.2	6.3	5.1	3.7	7.6	4.6	5.2	5.7	5.7	0.0	76.8		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	31.7	1.2	6.3	5.1	3.7	7.6	4.6	5.2	5.7	5.7	0.0	76.8		
Initial Spares														
Total Proc Cost	31.7	1.2	6.3	5.1	3.7	7.6	4.6	5.2	5.7	5.7	0.0	76.8		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION:

The M781 practice cartridge replaced the M407 practice cartridge. The M781 is a low cost , unfuzed fixed round of practice ammunition ready for use as issued and is compatible with the M79 and M203 Grenade Launchers. The cartridge case is made of plastic material and the projectile is also plastic with an aluminum rotating band. The ogive is made of a frangible plastic material and contains a colored dye in granular form, the consistency of talcum powder which is used to generate a signature. The propulsion system consists of a standard .38 caliber blank. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1978

ACQUISITION MANAGER: IOC, Rock Island, IL

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 40MM PRACTICE M781 (E74200)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years											
Complete Round	Martin Electronics	C/FP	IOC	Mar-99	Nov-99	1126	3.48	Yes		Jan 99	
FY 99	Perry, FL										
FY 00	TBS	C/FP	IOC	Mar-00	Mar-01	959	3.53	Yes		Oct 99	
FY 01	TBS	C/FP	IOC	Mar-01	Mar-02	1967	3.66	Yes		Oct 00	
REMARKS: TBS - To Be Selected											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										CTG 40MM HEDP M430 FMK19 MG (E11800)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Other Related Program Elements:											
Program Elements for Code B Items:		Code:	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	Prior Years				421							44209	
Gross Cost			0.0	0.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	308.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)			0.0	0.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	308.8	
Initial Spares													
Total Proc Cost			0.0	0.5	8.5	0.0	0.0	0.0	0.0	0.0	0.0	308.8	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: The M430 cartridge is a high-explosive dual-purpose (HEDP) impact type round. This cartridge is fired from the MK19 MOD 3 grenade machine gun mounted on the high-mobility multi-purpose vehicles. It is capable of penetrating two inches of steel armor plate at zero angle of obliquity and inflicting personnel casualties in the target area. This round replaces the M383 and M384 cartridges, which were strictly anti-personnel in nature. The M430 is a fixed round of ammunition consisting of an internally embossed one-piece projectile body that contains an explosive charge of composition A-5 with a copper cone-shaped charge liner, a rotation band, and a M549 point initiating base detonating fuze with spitback and is crimped to the cartridge case. This item is Code A, approved for service use.													
JUSTIFICATION: This is a training standard item used in both training and combat. Procurement supports annual peacetime training and builds a war reserve inventory in accordance with the Army's procurement goals.													
TYPE CLASSIFICATION DATE: 1971													
Acquisition Manager: IOC, Rock Island, IL													

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG 40MM HEDP M430 F/MK19 MG (E11800)		Weapon System Type:		Date: February 2000	
ID	Cost Elements	FY 98		FY 99		FY 00		FY 01	
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
		\$000	Each	\$	\$000	Each	\$	\$000	Each
	AMMUNITION HARDWARE								
	Load, Assemble, and Pack								
	Body Assy MPTS								
	Liner Fluted Ext								
	*Comp A-5 Class 1 (LB)								
	*Lead Azide (SP) (LB)								
	Ctg Case Assy								
	*M2 SP .019 F/40MM (LB)								
	*Comp CH-6 (LB)								
	FZ PIBD M549A1								
	Det Stab M55								
	*RDX Type II Class 3 (LB)								
	Link M16A2								
	SubTotal AMMO Hardware								
	Production Support Costs								
	Production Engineering								
	Quality Assurance								
	Acceptance Testing								
	Interim Transportation								
	Industrial Stock Support								
	SubTotal Prod. Support								
	COST - Nonrecurring								
	Government Furnished Material								
	SubTotal COST-Nonrecurring								
	TOTAL								

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:			P-1 Line Item Nomenclature: CTG 40MM HEDP M430 F/MK19 MG (E11800)					
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Load, Assemble, and Pack FY 00		American Ordnance (MAAP) Milan, TN		SS/FP	IOC	Mar-00	Jul-01	420568	7.17	Yes		Oct 99
Body Assy MPTS FY 00		TBS		C/FP	IOC	Jun-00	Dec-00	437391	1.87	Yes		Oct 99
Liner Fluted Ext FY 00		TBS		C/FP	IOC	Jun-00	Dec-00	435036	0.77	Yes		Oct 99
*Comp A-5 Class 1 (LB) FY 00		Stock Issue		N/A	N/A	N/A	N/A	39954		Yes		
*Lead Azide (SP) (LB) FY 00		Stock Issue		N/A	N/A	N/A	N/A	127		Yes		
Ctg Case Assy FY 00		American Ordnance (MAAP) Milan, TN		SS/FP	IOC	Mar-00	May-00	2524	3.98	Yes		Oct 99
*M2 SP .019 F/40MM (LB) FY 00		Stock Issue		N/A	N/A	N/A	N/A	6730		Yes		
*Comp CH-6 (LB) FY 00		Stock Issue		N/A	N/A	N/A	N/A	337		Yes		
FZ PIBD M549A1** FY 00		TBS		C/FP	IOC	Jul-00	Apr-01	437391	5.38	Yes		Oct 99
REMARKS: *Government Furnished Material **Pacing Component TBS - To Be Selected												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG 40MM HEDP M430 FMK19 MG (E11800)								
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Det Stab M55 FY 00	Day & Zimmerman (LSAAP) Texarkana, TX	C/FP	IOC	Jul-00	Apr-01	445803	1.22	Yes		Oct 99
*RDX Type II Class 3 (LB) FY 00	Stock Issue	N/A	N/A	N/A	N/A	43	N/A	Yes		
Link M16A2 FY 00	TBS	C/FP	IOC	Jun-00	Dec-00	445803	0.47	Yes		Oct 99
REMARKS: *Government Furnished Material TBS - To Be Selected										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										NONLETHAL WEAPONS CAPABILITY SET (E91800)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Other Related Program Elements:											
Program Elements for Code B Items:		Code:	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty					5	5	5	5	5	5		30	
Gross Cost	0.0	0.0	0.0	0.0	7.9	8.4	5.9	5.8	5.8	5.8	0.0	39.7	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	7.9	8.4	5.9	5.8	5.8	5.8	0.0	39.7	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	7.9	8.4	5.9	5.8	5.8	5.8	0.0	39.7	
Flyaway UIC													
Wpn Sys Proc UIC													

DESCRIPTION:

The Nonlethal Weapons Capability Set (NLCS) includes soldier protection items, nonlethal munitions, training items and other items. The sets will sustain and improve capability in the theater and at training centers, i.e., EUCCOM, SOUTHCOM, PACOM, CENTCOM, CONUS Reserve, USAIC and USAMPS and will provide resupply/replenishment for CINC stocks, provide Division capability sets as required, and continue to upgrade sets as nonlethal weapon technology improves.

JUSTIFICATION:

The FY01 procurement will provide the friendly force a nonlethal means to temporarily distract/disorient non-combatants.

Type Classification Date: September 2000 - Standard

Acquisition Manager: Project Manager for Mines, Countermine and Demolitions (PM-MCD)

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				NONLETHAL WEAPONS CAPABILITY SET (E91800)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Complete Set FY 00 FY 01	TBS TBS	SS/FFP Option	ARDEC ARDEC	Mar-00 Dec-00	Sep-00 Feb-01	5 5	1042 1396	Yes Yes		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												60MM MORTAR, ALL TYPES (E89600)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	186.3	22.4	8.6	26.9	23.3	28.7	25.6	29.0	39.8	35.9	0.0	426.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	186.3	22.4	8.6	26.9	23.3	28.7	25.6	29.0	39.8	35.9	0.0	426.5	
Initial Spares													
Total Proc Cost	186.3	22.4	8.6	26.9	23.3	28.7	25.6	29.0	39.8	35.9	0.0	426.5	
Flyaway U/C													
Wpn Sys Proc U/C													

This line includes 60mm All Types.

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: 60MM MORTAR, ALL TYPES (E89600)				Weapon System Type:		Date: February 2000									
Cost Elements			FY 98		FY 99		FY 00		FY 01		TotalCost \$000		Qty Each		UnitCost \$000		TotalCost \$000		Qty Each		UnitCost \$000	
			TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each	TotalCost \$000	Qty Each												
CTG MORTAR 60MM 1/10 PRAC M766					2479	4	619.75										2732	4	683.00			
CTG MORTAR 60MM ILLUM M721/M767					663												5770	9	663.71			
CTG MORTAR 60MM SMOKE WP M722					372												2974	9	328.48			
CTG MORTAR 60MM FULL RANGE																						
CTG MORTAR 60MM HE M720/M720A1					20354	35	436.00										4956	2	2478.00			
CTG 60MM HE M888 W/FUZE M935					1999	30	66.17										15381	232	66.33			
CTG 60MM HE M888 W/FUZE XM768					1040														16961	56		
TOTAL					26907												23311				28673	

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										CTG MORTAR 60MM ILLUM M721M767 (E70400)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	77	27				9	13	13	12	12		163	
Gross Cost	37.2	13.1	0.0	0.7	0.0	5.8	7.4	7.6	7.5	7.7	0.0	87.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	37.2	13.1	0.0	0.7	0.0	5.8	7.4	7.6	7.5	7.7	0.0	87.0	
Initial Spares													
Total Proc Cost	37.2	13.1	0.0	0.7	0.0	5.8	7.4	7.6	7.5	7.7	0.0	87.0	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
 The 60MM Mortar Illuminating cartridges are designed for use with the M224 lightweight company mortar system (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The M721 will provide white light illuminating capability at the same effective range as the companion high explosive (HE) Cartridges, M720 (Range 3,200-3,800 Meters Maximum). This is triple the range of the ammunition it replaces. The XM767 provides infrared illumination which greatly enhances the effectiveness of night vision devices. The two rounds are identical except for the composition of the illuminant. The HE and Illum Cartridges are ballistically similar, thus allowing a gun to illuminate and fire on the same target without adjustments. Procurements include both white light, M721, and infrared illuminant, M767. These items are Code A; Type Classified (TC) and have been approved for service use.

JUSTIFICATION:
 The FY01 procurement meets the annual peacetime training requirements and builds a war reserve stockpile in support of fielded Mortar Weapons.

Type Classification date: white light SEP 87; infrared TC Low Rate Procurement MAY 98, TC STD SEP 99

Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG MORTAR 60MM ILLUM M721/M767 (E70400)		Weapon System Type: M224 60mm Mortar		Date: February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01	
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
Cost Elements		\$000	Each	\$	\$000	Each	\$	\$000	Each
AMMUNITION HARDWARE									
1. CTG, M721, LAP								840	4385
2. CTG, M767, LAP								1078	4385
3. Prop Chg M235								227	35957
4. Ign Ctg M702								219	9121
5. Fuze, M776 MTSQ								1236	9121
6. Fin Assy M27								62	9121
SubTotal AMMO Hardware								3662	
Production Support Costs									
Production Engineering								999	
Quality Assurance								400	
Acceptance Testing								225	
Interim Transportation								108	
SubTotal Prod. Support								1732	
COST - Nonrecurring									
First Article Tests					663			376	
Corrective Action Plan - XM767					663			376	
SubTotal COST-Nonrecurring									
TOTAL					663			5770	M721 XM767
									630.72 685.07

Exhibit P-5a, Budget Procurement History and Planning											Date:	February 2000	
Appropriation / Budget Activity/Serial No:			Weapon System Type:			P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition			M224 60mm Lightweight Company Mortar			CTG MORTAR 60MM ILLUM M721/M767 (E70400)							
WBS Cost Elements:			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years													
1. CTG, M721, LAP FY 01			Pine Bluff Arsenal Pine Bluff, AR		SS/CR	TACOM	Mar-01	Dec-02	4	192	YES	N/A	
2. CTG, XM767, LAP FY 01			Pine Bluff Arsenal Pine Bluff, AR		SS/CR	TACOM	Mar-01	Dec-02	4	246	YES	N/A	
3. Prop Chg M235 FY 01			Valentec Systems Inc. Mt. Arlington, NJ		OPT	TACOM	Jan-01	Feb-02	36	6	YES	N/A	
4. Ign Ctg M702 FY 01			UNKNOWN		OPT	TACOM	Jan-01	Feb-02	9	24	YES	N/A	
5. Fuze, M776 MTSQ FY 01			Diehl GMBH Schramberg, GER		OPT	TACOM	Mar-01	Feb-02	9	135	YES	N/A	
6. Fin Assy M27 FY 01			Gayston Corp, Springboro OH		OPT	TACOM	Jan-01	Feb-02	9	7	YES	N/A	

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: CTG MORTAR 60MM ILLUM M721/M767 (E70400)		Date: February 2000																																																																																																																																																																					
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<table border="1"> <thead> <tr> <th rowspan="2">MFR</th> <th rowspan="2">NAME / LOCATION</th> <th colspan="3">PRODUCTION RATES</th> <th rowspan="2">REACHED D +</th> <th rowspan="2">MFR Number</th> <th rowspan="2">INITIAL</th> <th colspan="2">ADMIN LEAD TIME</th> <th colspan="2">MFR</th> <th rowspan="2">TOTAL</th> <th rowspan="2">REMARKS</th> </tr> <tr> <th>MIN.</th> <th>1-8-5</th> <th>MAX.</th> <th>Prior 1 Oct.</th> <th>After 1 Oct.</th> <th>After 1 Oct.</th> <th>After 1 Oct.</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Pine Bluff Arsenal Pine Bluff, AR</td> <td>6</td> <td>20</td> <td>35</td> <td></td> <td></td> <td>REORDER</td> <td>6</td> <td>6</td> <td>24</td> <td>30</td> <td rowspan="4">M721 & XM767 are produced on the same assembly facility.</td> </tr> <tr> <td>2</td> <td>Diehl GMBH Schramberg, GER</td> <td>15</td> <td>30</td> <td>90</td> <td></td> <td></td> <td>REORDER</td> <td>3</td> <td>6</td> <td>21</td> <td>27</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INITIAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INITIAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>INITIAL</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>REORDER</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>																														MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	INITIAL	ADMIN LEAD TIME		MFR		TOTAL	REMARKS	MIN.	1-8-5	MAX.	Prior 1 Oct.	After 1 Oct.	After 1 Oct.	After 1 Oct.	1	Pine Bluff Arsenal Pine Bluff, AR	6	20	35			REORDER	6	6	24	30	M721 & XM767 are produced on the same assembly facility.	2	Diehl GMBH Schramberg, GER	15	30	90			REORDER	3	6	21	27								REORDER												REORDER												INITIAL													REORDER													INITIAL													REORDER													INITIAL													REORDER					
MFR	NAME / LOCATION	PRODUCTION RATES			REACHED D +	MFR Number	INITIAL	ADMIN LEAD TIME		MFR		TOTAL	REMARKS																																																																																																																																																																				
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Exhibit P-40, Budget Item Justification Sheet												Date: February 2000	
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 60MM HE M888 W/FUZE M935 (E67304)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty		26	26	30	232							314	
Gross Cost	0.0	2.0	3.8	2.0	15.4	0.2	0.0	0.0	0.0	0.0	0.0	23.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	2.0	3.8	2.0	15.4	0.2	0.0	0.0	0.0	0.0	0.0	23.4	
Initial Spares													
Total Proc Cost	0.0	2.0	3.8	2.0	15.4	0.2	0.0	0.0	0.0	0.0	0.0	23.4	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The round is used against personnel and materiel providing both fragmentation and blast effect. It uses the M935 fuze, fin assembly, and a projectile body with a TNT explosive fill. The round uses a point detonating fuze. This item is Code A, it has been approved for service use.

JUSTIFICATION:

Procurement supports annual peacetime training requirements and builds toward a depot level.

TYPE CLASSIFICATION DATE: 1986

ACQUISITION MANAGER: IOC, Rock Island, IL

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 60MM HE M888 W/FUZE M935 (E67304)				Weapon System Type:		Date: February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
		TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty				
Cost Elements													
AMMUNITION HARDWARE													
Load, Assemble, and Pack													
*M720 Proj Mpts													
*Comp B Type I Grade A (LB)													
*TNT Type I Flake (LB)													
M27 Fin Assembly													
M702 Ignition Cartridge													
*M9 Flake .006 f/60MM (LB)													
*Nitrocellulose WW Gr A (LB)													
M10 Flake .008 (LB)													
LAP Chg Prop M204													
Container Assy M204													
*M935 Fuze													
Fz Mpts M935													
*Fz Mpts M935													
*Comp A-5 Class 1 (LB)													
*RDX Type II Class 3 (LB)													
SubTotal AMMO Hardware													
Production Support Costs													
Production Engineering													
Quality Assurance													
Acceptance Testing													
Interim Transportation													
Industrial Stock Support													
SubTotal Prod. Support													

Exhibit P-5a, Budget Procurement History and Planning														
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: CTG 60MM HE M888 W/FUZE M935 (E67304)								
WBS Cost Elements:			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years														
Load, Assemble, and Pack														
FY 99			American Ordnance (MAAP) Milan, TN		SS/FP	IOC	Sep-99	Nov-00	30	26.90			Jul 99	
FY 00			American Ordnance (MAAP) Milan, TN		SS/FP	IOC	Mar-00	Mar-01	232	27.30	Y		Oct 99	
*M720 Proj Mpts														
FY 99			Stock Issue		N/A	N/A	N/A	N/A	31	N/A				
FY 00			Stock Issue		N/A	N/A	N/A	N/A	241	N/A				
*Comp B Type I Grade A (LB)														
FY 99			Stock Issue		N/A	N/A	N/A	N/A	24	N/A				
FY 00			Stock Issue		N/A	N/A	N/A	N/A	185	N/A				
*TNT Type I Flake (LB)														
FY 99			Stock Issue		N/A	N/A	N/A	N/A	12	N/A				
FY 00			Stock Issue		N/A	N/A	N/A	N/A	93	N/A				
M27 Fin Assembly														
FY 99			Wilkinson Mfg Fort Calhoun, NE		C/FP	IOC	Aug-99	Jan-00	31	5.56			Jun 99	
FY 00			Wilkinson Mfg Fort Calhoun, NE		C/FP	IOC	Feb-00	Oct-00	241	5.65	Y		Oct 99	
REMARKS: *Government Furnished Material														

Date: February 2000

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:			P-1 Line Item Nomenclature: CTG 60MM HE M888 W/FUZE M935 (E67304)					
WBS Cost Elements: Fiscal Years				Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
M702 Ignition Cartridge FY 99				American Ordnance (Milan Milan, TN	IOC	Sep-99	Jul-00	31	11.54			Jul 99
FY 00				American Ordnance (Milan Milan, TN	IOC	Mar-00	Oct-00	241	11.71	Y		Oct 99
*M9 Flake .006 f/60MM (LB) FY 99				Stock Issue	N/A	N/A	N/A	2	N/A			
FY 00				Stock Issue	N/A	N/A	N/A		N/A			
*Nitrocellulose WW Gr A (LB) FY 99				Stock Issue	N/A	N/A	N/A	1	N/A			
FY 00				Stock Issue	N/A	N/A	N/A	8	N/A			
*M10 Flake .008 (LB) FY 99				Stock Issue	NA	N/A	N/A	2	N/A			
FY 00				Stock Issue	N/A	N/A	N/A	19	N/A			
LAP Chg Prop M204 FY 99				American Ordnance (MAAP) Milan, TN	IOC	Sep-99	Sep-00	122	1.15			Jul 99
FY 00				American Ordnance (MAAP) Milan, TN	IOC	Mar-00	Oct-00	937	0.85	Y		Oct 99
REMARKS: *Government Furnished Material												

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No:				Date: February 2000					
PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:			P-1 Line Item Nomenclature:		
WBS Cost Elements:				Contract Method and Type			CTG 60MM HE M888 W/FUZE M935 (E67304)		
Fiscal Years				Contractor and Location			Award Date		
Container Assy M204				Armtec Defense Prod Coachella, CA			Aug-99		
FY 99				Armtec Defense Prod Coachella, CA			Mar-00		
FY 00				Stock Issue			N/A		
*M935 Fuze				Stock Issue			N/A		
FY 99				Stock Issue			N/A		
FY 00				Stock Issue			N/A		
*Fz MPTS M935**				Stock Issue			N/A		
FY 99				American Ordnance (Milan AAP) Milan, TN			N/A		
FY 00				Stock Issue			N/A		
*Comp A-5 Class 1 (LB)				Stock Issue			N/A		
FY 99				Stock Issue			N/A		
FY 00				Stock Issue			N/A		
*RDX Type II Class 3 (LB)				Stock Issue			N/A		
FY 99				Stock Issue			N/A		
FY 00				Stock Issue			N/A		
REMARKS:				*Government Furnished Material					
				**Pacing Component					

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG MORTAR 60MM HE W/PD FUZE XM768 (E92900)	
Program Elements for Code B Items:												Other Related Program Elements:	
64802/D613												Code: B	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty						56	44	50	45	45		240	
Gross Cost	0.0	0.0	0.0	1.0	0.0	17.0	11.8	13.5	12.4	12.7	0.0	67.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	17.0	11.8	13.5	12.4	12.7	0.0	67.4	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	17.0	11.8	13.5	12.4	12.7	0.0	67.4	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
<p>The 60MM Mortar High Explosive/point detonating (HE/PPD) cartridges are designed for use with the M224 lightweight company mortar system (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. It will consist of the new XM783 dual safety , point detonating/delay fuze, high fragmentation steel shell body and insensitive explosive fill. The tail assembly and propulsion system will be common to all other 60mm rounds. This round will be used primarily in training because it is significantly less expensive than the M720A1, the preferred warfighting round. However, the XM768 will be lethal and can be used in combat. This item has not yet been approved for service use.</p>													
JUSTIFICATION:													
FY01 procurement supports annual training requirements and establishes an initial training stockpile.													
TYPE CLASSIFICATION DATE: Dec 2000													
ACQUISITION MANAGER: PM Mortars													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG MORTAR 60MM HE W/PD FUZE XM768 (E92900)			Weapon System Type: M224 60mm Lightweight Company Mortar			Date: February 2000			
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01			
			TotalCost \$000	Qty x1000	UnitCost \$	TotalCost \$000	Qty x1000	UnitCost \$	TotalCost \$000	Qty x1000	UnitCost \$	TotalCost \$000	Qty x1000	UnitCost \$	
AMMUNITION HARDWARE															
Load, Assemble & Pack , XM768													4136	56	74
Shell Body, HF1													1769	58	31
Ignition Gartridge, M702													1389	58	24
Prop Charge M235													1443	229	6
Fin M27													388	58	7
Fuze, XM783													3767	58	65
TOTAL													12892		
Production Support Costs															
Production Engineering													1000		
Quality Assurance													200		
Acceptance Testing													180		
Interim Transportation													70		
SubTotal Prod. Support							1040						1450		
COST - Nonrecurring															
First Article / IPT													1463		
Calibration Lot													1156		
SubTotal COST-Nonrecurring													2619		
TOTAL							1040						16961		304

Exhibit P-5a, Budget Procurement History and Planning														
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type: M224 60mm Lightweight Company Mortar			P-1 Line Item Nomenclature: CTG, MORTAR 60MM HE W/PD FUZE XM768 (E92900)							
WBS Cost Elements: Fiscal Years				Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble & Pack , XM768 FY 01 Shell Body, HF1 FY 01 Ignition Gartridge, M702 FY 01 Prop Charge M235 FY 01 Fin M27 FY 01 Fuze, XM783 FY 01				Unknown		OPT	TACOM	Mar-01	Mar-03	56	74	no	Dec 00	
				Unknown		OPT	TACOM	Jan-01	Feb-02	58	31	no	Dec 00	
				Unknown		OPT	TACOM	Jan-01	Feb-02	58	24	yes		
				Valentec, Mt. Arlington NJ		OPT	TACOM	Jan-01	Feb-02	229	6	yes		
				Gayson Corp, Springboro OH		OPT	TACOM	Jan-01	Feb-02	58	7	yes		
				KDI, Cincinnati, OH		OPT	TACOM	Jan-01	Jul-02	58	65	no	Dec 00	
REMARKS:				LAP for the M720A1, XM768 and XM769 will be bundled on one contract Shell bodies for the M720A1, XM768 and XM769 will be bundled on one contract										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								CTG MORTAR 60MM HE M720M720A1 W/M734 FU (E67303)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition				Other Related Program Elements:									
Program Elements for Code B Items:				Code:									
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	1093			35					23	14		1165	
Gross Cost	112.1	2.1	0.0	20.5	5.0	0.0	0.0	0.0	11.9	7.2	0.0	158.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	112.1	2.1	0.0	20.4	5.0	0.0	0.0	0.0	11.9	7.2	0.0	158.7	
Initial Spares													
Total Proc Cost	112.1	2.1	0.0	20.4	5.0	0.0	0.0	0.0	11.9	7.2	0.0	158.7	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: <p>The M720/M720A1 60mm High Explosive Cartridge with Multi-Option Fuze is designed for use with the M224 Lightweight Company Mortar currently fielded to all light infantry units in the Army. The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, tail assembly, and projectile body with a TNT or composition B explosive fill. A materiel change funded in FY97 should result in a change to the explosive fill by incorporation of an insensitive munition. The round uses a proximity fuze setting to burst at a height over the target which is optimized for lethality. The M720A1 version incorporates the more reliable and countermeasure resistant M734A1 Multi-option fuze. This item is code A; it has been approved for service use.</p>													
JUSTIFICATION: <p>FY01 funds are required to prove-out a materiel change for an insensitive explosive main charge.</p> <p>Type Classification date: M720 STD Jan 86; M720A1 STD Dec 00</p> <p>ACQUISITION MANAGER: PM Mortars</p>													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION /Ammunition / 41330050			P-1 Line Item Nomenclature: CTG Mortar 60MM HE M720/M720A1 WM734 Fuze			Weapon System Type:			Date: February 2000		
Cost Elements			FY 98			FY 99			FY 00			FY 01		
			TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
AMMUNITION HARDWARE														
1. Cartridge, M720A1					2528	35	72							
2. Shell Body HFI					617	37	17							
3. Prop Charge M235					857	145	6							
4. Ignition Ctg, M235					849	37	23							
5. Fuze, M734A1					8968	37	242							
6. Fin M27					311	37	8							
SubTotal AMMO Hardware					14130									
Production Support Costs														
Production Engineering					1346									
Quality Assurance					500									
Acceptance Testing					384									
Interim Transportation					190						4956			
Material Change														
SubTotal Prod. Support					2420						4956			
COST - Nonrecurring														
First Article Testing					1801									
Value Engineering					2003									
Product Improvement														
Government Furnished Material														
SubTotal COST-Nonrecurring					3804									
TOTAL					20354						4956			

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG MORTAR 60MM HE M720/M720A1 W/M734 FUZE (E67303)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years											
1. CTG, M720E1, LAP FY99	UNKNOWN	C/FP	TACOM	Dec-00	Dec-01	35	72	No	Jun00	Aug 99	
2. SHELL BODY FY99	UNKNOWN	C/FP	TACOM	Jun-00	Sep-00	37	17	No	Jun 00	Aug 99	
3. PROP CHG M235 FY99	VALENTEC SYS INC	OPT	TACOM	Jul-99	Jun-00	145	6	Yes		Oct 98	
4. IGN CTG M702 FY99	UNKNOWN	C/FP	TACOM	Jun-00	Aug-00	37	23	Yes		Oct 98	
5. FUZE, M734A1 MO FY99	KDI, CINNINNATI, OHIO	OPT	TACOM	Mar-99	Apr-00	37	242	Yes		Feb 98	
6. Fin M27 FY99	GAYSIN CORP SPRINGBORO, OHIO	C/FP	TACOM	Sep-99	May-00	37	8	Yes		Oct 98	
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet												Date: February 2000
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)
PROCUREMENT OF AMMUNITION / 1 / Ammunition				Other Related Program Elements:								
Program Elements for Code B Items:				Code:								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				8								8
Gross Cost	0.0	0.5	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.5	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8
Initial Spares												
Total Proc Cost	0.0	0.5	0.0	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The XM816 81mm Infrared Illumination Cartridge is designed for use with the M252 81mm mortar system, currently fielded to all Army light infantry battalions and to the United States Marine Corps. The round is used to illuminate target areas during night operations. It consists of a two-piece body filled with illuminating flare, fuze, and tail assembly. It bursts over a target, producing infrared illumination which greatly enhances the performance of night vision devices. This item is code A: It has been type classified and approved for service use.

JUSTIFICATION:
Procurement builds a war reserve in support of fielded mortar weapons.

Type Classification date: TC (Limited Procurement) JUL 94; TC (STD) APR 01

Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)				Weapon System Type: M252 81mm Mortar		Date: January 2000	
Cost Elements		ID	FY 98		FY 99		FY 00		FY 01				
		CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	\$
AMMUNITION HARDWARE													
1. CTG, XM816, LAP						2229	8000	279					
2. Shell Bodies						208	8320	25					
3. Parachute Assembly						255	8320	31					
4. Prop Chg M219						158	32800	5					
5. Ign Ctg M752						149	8320	18					
6. Fuze M772						1221	8320	147					
7. Container PA114						82	8320	10					
8. Container PA157						97	2774	35					
SubTotal AMMO Hardware						4399							
Production Support Costs													
Production Engineering						1439							
Quality Assurance						387							
Acceptance Testing						373							
Interim Transportation						132							
SubTotal Prod. Support						2331							
COST - Nonrecurring													
First Article Testing/IPT						2558							
SubTotal COST-Nonrecurring						2558							
TOTAL						9288		\$ 1,161.00					

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:		Date: January 2000			
PROCUREMENT OF AMMUNITION / 1 / Ammunition		M252 81mm Mortar System		CTG 81MM INFRARED (IR) ILLUM XM816 (E90000)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	RFP Issue Date
1. CTG, XM816, LAP FY 99	Pine Bluff Arsenal, Pine Bluff AR	SS/CR	TACOM	Mar-99	Jul-01	8	279		
2. Shell Bodies FY 99	UNKNOWN	C/FP	TACOM	Sep-99	Aug-00	8	25		
3. Parachute Assembly FY 99	Mills Manufacturing Asheville NC	OPT	TACOM	Mar-99	Apr-00	8	31		
4. Prop Chg M219 FY 99	UNKNOWN	C/FP	TACOM	Nov-99	Dec-00	33	5		
5. Ign Ctg M752 FY 99	UNKNOWN	C/FP	TACOM	Sep-99	Aug-00	8	18		
6. Fuze M772 FY 99	Diehl GMBH Schramberg Germany	SS/FP	TACOM	Aug-99	Oct-00	8	147		
7. Container PA114 FY 99	United Ammo Container, Milan, TN	C/FP	TACOM	Aug-99	Jul-00	8	10		
8. Container PA157 FY 99	Brockway STD, Atlanta, GA	C/FP	TACOM	Aug-99	Jul-00	3	35		
REMARKS: Pine Bluff Arsenal is a Government owned/Government Operated (GOGO) facility. Work is performed through project orders, not contracts. Fuze is sole source to Diehl due to expertise and non-availability of a U.S. produced mortar time fuze.									

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG MORTAR 120MM FULL RANGE PRACTICE M931 (E25507)								
Program Elements for Code B Items:				Other Related Program Elements:								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	37	127	78	73						31		345
Gross Cost	17.8	50.9	31.2	29.5	0.0	0.0	0.0	0.0	0.0	16.6	0.0	146.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	17.8	50.9	31.2	29.5	0.0	0.0	0.0	0.0	0.0	16.6	0.0	146.0
Initial Spares												
Total Proc Cost	17.8	50.9	31.2	29.5	0.0	0.0	0.0	0.0	0.0	16.6	0.0	146.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The M931 120mm Full Range Practice Cartridge is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units in the Army. The M931 is a low-cost, full range, practice round that will replace a percentage of the standard High Explosive (HE) rounds used in 120mm mortar training. It consists of a M781 point detonating practice fuze which simulates the multi-option and provides flash, bang and smoke; a steel body which approximates the shape of the 120mm HE service round; and an ignition cartridge and propelling charge which provide the propulsion requirement. This item is code A, approved for service use.

JUSTIFICATION:
This is a training-unique item; not used in combat. Use of the M931 will reduce training costs and environmental impacts. Procurement supports annual peacetime training requirements and builds toward authorized depot level for training unique ammunition.

Type Classification date: TC (STD) AUG 96

Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG MORTAR 120MM FULL RANGE PRACTICE M93 (E25507)				Weapon System Type: M120/M121 120mm Battalion Mortar System				Date: February 2000	
ID	CD	Cost Elements	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty						
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
AMMUNITION HARDWARE																
		1. LAP M931				8084	73				112					
		2. Shell Body				8734	75				116					
		3. Fin Assembly M34				2606	75				35					
		4. Prop Chg M233				4269	297				14					
		5. Ignition Ctg M1020				1975	75				26					
		6. Fuze Trng M781				1281	75				17					
SubTotal AMMO Hardware						26949										
Production Support Costs																
		Production Engineering				1289										
		Quality Assurance				160										
		Acceptance Testing				415										
		Interim Transportation				675										
SubTotal Prod. Support						2539										
TOTAL						29488					406.73					

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type: M120/M121 120mm Battalion Mortar System			P-1 Line Item Nomenclature: CTG MORTAR 120MM FULL RANGE PRACTICE M93 (E25507)						
WBS Cost Elements:			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date RFP Issued
Fiscal Years												
1. LAP M931			SNC Technologies, LeGardeur PQ, Canada		OPT	TACOM	Mar-99	Dec-00	73	112	Yes	
FY 99												
2. Shell Body			Chamberlain Mfg. Scranton, PA		OPT	TACOM	Feb-99	Feb-00	75	116	Yes	
FY 99												
3. Fin Assembly M34			Valentec Systems Inc., Mt. Arlington, NJ		OPT	TACOM	Aug-99	Jul-00	75	35	Yes	
FY 99												
4. Prop Chg M233			Valentec Systems Inc., Mt. Arlington, NJ		OPT	TACOM	Aug-99	Apr-00	297	14	Yes	
FY 99												
5. Ignition Ctg M1020			Pocal Industries Moscow, PA		OPT	TACOM	Mar-99	Feb-00	75	26	Yes	
FY 99												
6. Fuze Trng M781			Pocal Industries Moscow, PA		OPT	TACOM	Feb-99	Sep-99	75	17	Yes	
FY 99												
REMARKS:												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000		
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		CTG MORTAR 120MM HE M934A1 WIMO FUZE (E25501)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Code:		Other Related Program Elements:	
Program Elements for Code B Items:															
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty	199		43	48	65	62	51	47	33	19		492			
Gross Cost	78.0	0.0	37.4	36.8	48.9	45.0	37.9	35.8	26.7	16.5	0.0	329.0			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	78.0	0.0	37.4	36.8	48.9	45.0	37.9	35.8	26.7	16.5	0.0	363.1			
Initial Spares															
Total Proc Cost	78.0	0.0	37.4	36.8	48.9	45.0	37.9	35.8	26.7	16.5	0.0	363.1			
Flyaway U/C															
Wpn Sys Proc U/C															

DESCRIPTION:
The M934A1 High Explosive Cartridge with Multi Option Fuze is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units in the Army. The round is used against personnel and materiel providing both fragmentation and blast effect. It consists of a multi-option fuze, tail assembly, and projectile body with composition B explosive fill. The M934A1 uses the more reliable and countermeasure resistant M734A1 multi-option fuze. The proximity setting will burst the round at a height over the target which is optimized for lethality. The round expands the lethal radius to 1.5 times that of the 4.2-in high explosive round it replaces. This item is code A: it has been approved for service use.

JUSTIFICATION:
FY2001 procurement of the M934A1 supports building a war reserve inventory, which will replace the M934 as the preferred 120mm mortar ammunition.

Type Classification Date: Non-Developmental Item (NDI) - MAR 90, Limited Procurement-Urgent (LPU);
Enhanced Ammunition - M934 standard (STD) MAY92; M934A1 STD JUN 96.

Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M934A1 W/MO FUZE (E25501)				Weapon System Type: M120/M121 120mm Battalion Mortar System				Date: February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Cost Elements				FY 98		FY 99		FY 00		FY 01		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty		UnitCost		TotalCost		Qty	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type: M120/M121 120mm Battalion Mortar System			P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M934A1 W/MO FUZE (E25501)				
WBS Cost Elements:		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date RFP Issued
Fiscal Years										Avail
1. LAP M934A1										
FY 99		SNC Tech, LeGardeur, PQ, Canada	OPT	TACOM	Mar-99	Mar-01	48	148	Yes	
FY 00		SNC Tech, LeGardeur, PQ, Canada	OPT	TACOM	Jan-00	Oct-01	65	140	Yes	
FY 01		SNC Techn, LeGardeur, PQ, Canada	OPT	TACOM	Jan-01	Oct-02	62	121	Yes	
2. Shell Body										
FY 99		Chamberlain Mfg. Scranton, PA	OPT	TACOM	Mar-99	Mar-00	50	132	Yes	
FY 00		Chamberlain Mfg. Scranton, PA	OPT	TACOM	Jan-00	Jan-01	67	140	Yes	
FY 01		UNKNOWN	C/FP	TACOM	Mar-01	Jun-02	64	142	Yes	
3. Fin Assembly M31										
FY 99		Valentec Systems Inc. Mt. Art., NJ	OPT	TACOM	Aug-99	Jul-00	50	35	Yes	
FY 00		Valentec Systems Inc. Mt. Art., NJ	OPT	TACOM	Jan-00	Dec-00	67	32	Yes	
FY 01		UNKNOWN	C/FP	TACOM	Mar-01	May-01	64	35	Yes	
4. Ignition Ctg M1020										
FY 99		Pocal Industries Moscow, PA	OPT	TACOM	Mar-99	Feb-00	50	26	Yes	
FY 00		Pocal Industries Moscow, PA	OPT	TACOM	Jan-00	Dec-00	67	27	Yes	
FY 01		Pocal Industries Moscow, PA	OPT	TACOM	Jan-01	Dec-01	64	28	Yes	
REMARKS: 120mm components (M31 Fin, M1020 Ignition Cartridge, M734A1 Fuze, M234 Prop Charge, PA153 Container and PA154 Container) are procured on same contracts as other 120mm mortar rounds.										

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Date: February 2000				
Weapon System Type: M120/M121 120mm Battalion Mortar System					P-1 Line Item Nomenclature: CTG MORTAR 120MM HE M934A1 W/MO FUZE (E25501)				
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail
Fiscal Years									
5. Prop Chg M234									
FY 99	Valentec Systems Inc. Mt. Arlington, NJ	OPT	TACOM	Aug-99	Sep-00	196	14	Yes	
FY 00	UNKNOWN	C/FP	TACOM	Mar-00	Jun-01	266	15	Yes	
FY 01	UNKNOWN	OPT	TACOM	Jan-01	Feb-02	252	15	Yes	
6. Fuze M734A1									
FY 99	KDI, Cincinnati OH	OPT	TACOM	Mar-99	May-00	50	252	Yes	
FY 00	KDI, Cincinnati OH	OPT	TACOM	Jan-00	Dec-00	67	245	Yes	
FY 01	KDI, Cincinnati OH	OPT	TACOM	Jan-01	Dec-01	64	225	Yes	
7. PA153 Container									
FY 99	United Ammo Container, Milan, TN	C/FP	TACOM	Jul-99	Feb-00	50	10	Yes	
FY 00	United Ammo Container, Milan, TN	OPT	TACOM	Jan-00	Oct-00	67	10	Yes	
FY 01	United Ammo Container, Milan, TN	OPT	TACOM	Jan-01	Oct-01	64	10	Yes	
8. PA154 Container									
FY 99	Brockway STD, Atlanta, GA	C/FP	TACOM	Aug-99	Jan-00	25	41	Yes	
FY 00	Brockway STD, Atlanta, GA	OPT	TACOM	Jan-00	Oct-00	34	42	Yes	
FY 01	Brockway STD, Atlanta, GA	OPT	TACOM	Jan-01	Oct-01	32	42	Yes	
REMARKS: 120mm components (M31 Fin, M1020 Ignition Cartridge, M734A1 Fuze, M234 Prop Charge, PA153 Container and PA154 Container) are procured on same contracts as other 120mm mortar rounds. The M934A1 LAP effort has been combined with the M931 LAP on one contract.									

Exhibit P-40, Budget Item Justification Sheet										Date: February 2000		
Appropriation / Budget Activity / Serial No:				P-1 Item Nomenclature:						CTG MORTAR 120MM ILLUM XM930 WMTSQ FZ (E25503)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition				Other Related Program Elements:								
Program Elements for Code B Items:				Code: B								
64802/D813												
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	9	13	8	2	4							36
Gross Cost	6.2	26.0	2.9	5.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	45.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	26.0	2.9	5.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	39.7
Initial Spares												
Total Proc Cost	0.0	26.0	2.9	5.0	5.9	0.0	0.0	0.0	0.0	0.0	0.0	39.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The XM930 Illumination Cartridge/ XM983 Infrared Illumination Cartridge with Mechanical Time - Super Quick Fuze is designed for use with the M120/M121 120mm Battalion Mortar System, currently fielded to all Armor and Mechanized Infantry units in the Army. The round is used to illuminate targets during night operations. It consists of a two piece body filled with illuminating flare, fuze and tail assembly. It bursts over a target producing 1 million candlepower illumination, which is more intense and effective than the 4.2" round that it replaces. This budget line also funds the XM983 Infrared Illumination round, which greatly enhances the effectiveness of night vision devices. The rounds are range matched to the 120mm high explosive (HE) and smoke cartridges. These items are code B, not approved for service use.

JUSTIFICATION:
This procurement is part of the total package fielding effort for the 120mm mortar system. This procurement provides a calibration lot and builds war reserve inventory in accordance with the Army's procurement goals.

Type Classification TCLP 3Q98, STD Jun 00

ACQUISITION MANAGER: PM Mortars

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG MORTAR 120MM ILLUM XM930 WMTSQ FZ (E25503)			Weapon System Type:		Date: February 2000			
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
		1. Load, Assemble, and Pack				843	2482	340	1214	3500	347			
		2. Shell Body				758	2581	294	1088	3640	299			
		3. White Light Cannister				334	1291	259	481	1820	264			
		4. Infrared Cannister				411	1291	319	592	1820	326			
		5. Fuze, M776 MTSQ				338	2581	131	485	3640	133			
		6. Ignition Ctg M1020				68	2581	26	99	3640	27			
		7. Propellant Charge M234				146	10176	14	210	14350	15			
		8. Fin Assembly M31				89	2581	35	116	3640	32			
		9. Fiber Container PA153				25	2581	10	36	3640	10			
		10. Metal Container PA154				53	1291	41	75	1820	41			
		SubTotal AMMO Hardware				3065			4396					
Production Support Costs														
		Production Engineering				1137			751					
		Quality Assurance				237			162					
		Acceptance Testing				413			455					
		Interim Transportation				106			121					
		SubTotal Prod. Support				1893			1489					
		TOTAL				4958		1997	5885		1681			

Exhibit P-5a, Budget Procurement History and Planning											Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:		P-1 Line Item Nomenclature: CTG MORTAR 120MM ILLUM XM930 W/MTSQ FZ (E25503)					RFP Issue Date
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail
1. Load, Assemble, and Pack FY 99 FY 00		Pine Bluff Ars. Pine Bluff AR		SS/CR	TACOM	Jun-00	Jun-02	2	340	no	un 00
		Pine Bluff Ars. Pine Bluff AR		SS/CR	TACOM	Jun-00	Jun-02	4	347	no	un 00
2. Shell Body FY 99 FY 00		Chamberlain Mfg Scranton PA		OPT	TACOM	Mar-99	Mar-00	3	294	yes	
		Chamberlain Mfg Scranton PA		OPT	TACOM	Mar-00	Mar-01	4	299	yes	
3. White Light Cannister FY 99 FY 00		Crane AAP Crane IN		SS/CR	TACOM	Jun-00	Jun-01	1	259	no	un 00
		Crane AAP Crane IN		SS/CR	TACOM	Jun-00	Jul-01	2	264	no	un 00
4. Infrared Cannister FY 99 FY 00		Crane AAP Crane IN		SS/CR	TACOM	Jun-00	Aug-01	1	319	no	un 00
		Crane AAP Crane IN		SS/CR	TACOM	Jun-00	Sep-01	2	326	no	un 00
5. Fuze, M776 MTSQ FY 99 FY 00		Diehl GMBH Schramberg, GER		SS/FP	TACOM	Sep-99	Aug-00	3	131	yes	
		Diehl GMBH Schramberg, GER		OPT	TACOM	Mar-00	Feb-01	4	133	yes	
6. Ignition Ctg M1020 FY 99 FY 00		Pocal Industries Moscow PA		OPT	TACOM	Mar-99	Feb-00	3	26	yes	
		Pocal Industries Moscow PA		OPT	TACOM	Jan-00	Feb-01	4	27	yes	
7. Propellant Charge M234 FY 99 FY 00		Valentec Systems Inc Mt Arlington NJ		OPT	TACOM	Aug-99	Sep-00	10	14	yes	
		UNKNOWN		C/FP	TACOM	Mar-00	Jun-01	14	15	yes	
REMARKS: Pine Bluff Arsenal and Crane Army Ammunition Activity are Government Owned-Government Operated (GOGO) facilities. Work is performed through work orders, not contracts. 120mm common components (M1020 ignition Cartridge, M234 Prop Charge, M31 fin and PA153 & PA154 containers are procured on the same contract as other 120mm mortar rounds.											

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: CTG MORTAR 120MM ILLUM XM930 WMTSQ FZ (E25503)					RFP Issue Date
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	
Fiscal Years										
8. Fin Assembly M31 FY 99 FY 00	Valentec Systems Inc Mt Arlington NJ Valentec Systems Inc Mt Arlington NJ	OPT OPT	TACOM TACOM	Aug-99 Jan-00	Jul-00 Nov-01	3 4	35 32	yes yes		
9. Fiber Container PA153 FY 99 FY 00	United Ammo Container, Milan TN United Ammo Container, Milan TN	C/FP OPT	TACOM TACOM	Jul-99 Jan-00	Feb-00 Oct-00	3 4	10 10	yes yes		
10. Metal Container PA154 FY 99 FY 00	Brockway Standard, Atlanta GA Brockway Standard, Atlanta GA	C/FP OPT	TACOM TACOM	Jul-99 Jan-00	Jan-00 Oct-00	1 2	41 41	yes yes		
REMARKS: Pine Bluff Arsenal and Crane Army Ammunition Activity are Government Owned-Government Operated (GOGO) facilities. Work is performed through work orders, not contracts. 120mm common components (M1020 ignition Cartridge, M234 Prop Charge, M31 fin and PA153 & PA154 containers are procured on the same contract as other 120mm mortar rounds.										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 120MM WP SMOKE XM929 (E25504)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	112	27			0.0	7.5	0.0	0.0	0.0	0.0		147	
Gross Cost	118.7	35.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	161.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	118.7	35.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	161.2	
Initial Spares													
Total Proc Cost	118.7	35.0	0.0	0.0	0.0	7.5	0.0	0.0	0.0	0.0	0.0	161.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
The M929 White Phosphorus (WP) Smoke cartridge is designed for use with the M120/M121 120mm Battalion Mortar System, which is currently fielded to all Armor and Mechanized Infantry units in the Army. The round is used to provide smoke, with some incendiary effect, for various screening uses. It consists of a body with WP impregnated felt wedges, fuze, and tail assembly. It bursts over or on a target, producing dense smoke which is 100 percent greater than the 4.2-in smoke round it replaces. The round is range matched to the 120mm high explosive (HE) and illuminating cartridges. This item is code B; it has been type classified limited production and approved for service use.

JUSTIFICATION:
FY2001 procurement build war reserve inventory and support annual peacetime training requirements in accordance with the Army's procurement goals.

Type Classification Date: NDI - MAR 90, limited procurement - urgent(LPU);
Enhanced Ammunition - XM929, limited rate production (E25504) MAY 92; M929, standard (E91300) JUN 96.
Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG 120MM WP SMOKE XM929 (E25504)		Weapon System Type: M120/M121 120mm Battalion Mortar System		Date: February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01	
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty
Cost Elements		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
AMMUNITION HARDWARE									
1. LAP, M929							8	1985	235
2. Shell Body							9	1813	206
3. Ign Ctg M1020							9	239	27
4. Fin Assembly M31							9	279	32
5. Prop Chg M234							35	506	15
6. Fuze M734A1							9	2151	245
7. PA153 Container							9	88	10
8. PA 154 Container							4	183	42
SubTotal AMMO Hardware					7244				
Production Support Costs									
Production Engineering								90	
Quality Assurance								74	
Acceptance Testing								55	
Interim Transportation									
SubTotal Prod. Support							219		
TOTAL							7463		\$882.34

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000	
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: CTG 120MM WP SMOKE XM929 (E25504)					RFP Issue Date	
WBS Cost Elements:			Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revis Avail
Fiscal Years												
1. LAP, M929 FY 00			Pine Bluff Arsenal , Pine Bluff AR		SS/CR	TACOM	Mar-00	Sep-02	8	235	Yes	
2. Shell Body FY 00			Chamberlain MFG, Scranton PA		OPT	TACOM	Jan-00	Jan-01	9	206		
3. Ign Ctg M1020 FY 00			Pocal Industries, Moscow, PA		OPT	TACOM	Jan-00	Dec-00	9	27		
4. Fin Assembly M31 FY 00			Valentec Systems, Mt Arlington, NJ		OPT	TACOM	Jan-00	Dec-00	9	32		
5. Prop Chg M234 FY 00			UNKNOWN		C/FP	TACOM	Mar-00	Jun-01	35	15		
6. Fuze M734A1 FY 00			KDI Cincinnati, OH		OPT	TACOM	Jan-00	Jan-01	9	245		
7. PA153 Container FY 00			United Ammo Container, Milan TN		OPT	TACOM	Jan-00	Jan-01	9	10		
8. PA 154 Container FY 00			Brockway Standard, Atlanta, GA		OPT	TACOM	Jan-00	Oct-00	4	42		
REMARKS:			Pine Bluff Arsenal is a Government Owned - Government Operated facility. Work is performed through work orders, not contracts. 120mm Mortar components (Shell bodies, M1020 ignition cartridges, M31 fin, M234 Prop Charges and PA153 & PA154 containers) are procured on the same contracts as for other 120mm mortar rounds.									

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition											CTG 120MM WP SMOKE M929 (E91300)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					56	26	13	13	17	17		142
Gross Cost	0.0	0.0	0.0	0.0	51.6	25.0	13.9	14.7	18.1	18.0	0.0	141.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	51.6	25.0	13.9	14.7	18.1	18.0	0.0	141.3
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	51.6	25.0	13.9	14.7	18.1	18.0	0.0	141.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The M929 White Phosphorus (WP) Smoke cartridge is designed for use with the M120/M121 120mm Battalion Mortar System, which is currently fielded to all Armor and Mechanized Infantry units in the Army. The round is used to provide smoke, with some incendiary effect, for various screening uses. It consists of a body with WP impregnated felt wedges, fuze, and tail assembly. It bursts over or on a target, producing dense smoke which is 100 percent greater than the 4.2-in smoke round it replaces. The round is range matched to the 120mm high explosive (HE) and illuminating cartridges. This item is code A, type classified and approved for service use.

JUSTIFICATION:
FY2001 and outyear procurements build war reserve inventory and support annual peacetime training requirements in accordance with the Army's procurement goals.

Type Classification Date: NDI - MAR 90, limited procurement - urgent(LPU);
Enhanced Ammunition - XM929, limited rate production (LRP) MAY 92; M929, standard (STD) JUN 96.

Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 120MM WP SMOKE M929 (E91300)				Weapon System Type: M120/M121 120mm Battalion Mortar System				Date: February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost						
Cost Elements		\$000	x1000	\$	\$000	\$	x1000	\$000	x1000	\$	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE															
1. LAP. M929								13027	56	233		6508	26	248	
2. Shell Body								11899	58	205		5729	27	210	
3. Ign Ctg M1020								1568	58	27		767	27	28	
4. Fin Assembly M31								1832	58	31		958	27	35	
5. Prop Ctg M234								3323	228	15		1657	108	15	
6. Fuze M734A1								14116	58	242		6137	27	225	
7. PA153 Container								662	66	10		279	27	10	
8. PA 154 Container								1245	33	38		577	14	41	
SubTotal AMMO Hardware								47672				22612			
Production Support Costs															
Production Engineering								1687				1291			
Quality Assurance								310				315			
Acceptance Testing								610				561			
Interim Transportation								450				190			
SubTotal Prod. Support								3057				2357			
COST - Nonrecurring															
1. First Article Test								842							
SubTotal COST-Nonrecurring								842							
TOTAL								51571				\$920.91			\$950.12

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:		P-1 Line Item Nomenclature: CTG 120MM WP SMOKE M929 (E91300)						
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$	Specs Avail Now?		Date RFP Issued
Fiscal Years								x1000		Avail	Revisn	Date
1. LAP , M929		Pine Bluff Arsenal, Pine Bluff, AR		SS/CR	TACOM	Mar-00	Mar-02	56	233	yes		
FY 00		Pine Bluff Arsenal Pine Bluff, AR		SS/CR	TACOM	Mar-01	Dec-02	26	248	yes		
FY 01												
2. Shell Body		Chamberlain Mfg. Scranton, PA		OPT	TACOM	Jan-00	Jan-01	58	205			
FY 00		UNKNOWN		C/FP	TACOM	Mar-01	Jun-02	27	210			
FY 01												
3. Ign Ctg M1020		Pocal Industries Moscow, PA		OPT	TACOM	Jan-00	Dec-00	58	27			
FY 00		Pocal Industries Moscow, PA		OPT	TACOM	Jan-01	Dec-01	27	28			
FY 01												
4. Fin Assembly M31		Valentec Systems Inc., Mt. Arlington, NJ		OPT	TACOM	Jan-00	Dec-00	58	31			
FY 00		UNKNOWN		C/FP	TACOM	Mar-01	May-02	27	35			
FY 01												
5. Prop Chg M234		UNKNOWN		C/FP	TACOM	Mar-00	Jun-01	228	15			
FY 00		UNKNOWN		OPT	TACOM	Jan-01	Mar-02	108	15			
FY 01												
6. Fuze M734A1		KDI Cincinnati, OH		OPT	TACOM	Jan-00	Jan-01	58	242			
FY 00		KDI Cincinnati, OH		OPT	TACOM	Jan-01	Jan-02	27	225			
FY 01												
7. PA153 Container		United Ammo Container, Milan TN		OPT	TACOM	Jan-00	Oct-00	66	10	yes		
FY 00		United Ammo Container, Milan TN		OPT	TACOM	Jan-01	Jan-01	27	10	yes		
FY 01												
REMARKS: Pine Bluff Arsenal is a government owned / government operated facility. Work is performed through work orders, not contracts. 120mm mortar components (Shell bodies, M1020 ignition cartridge, M31 Fin, M234 Prop charge, and monopack container are procured on same contracts as for other 120mm mortar rounds.												

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 120MM WP SMOKE M929 (E91300)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
8. PA154 Container FY00 FY01	Brockway Standard, Atlanta GA Brockway Standard, Atlanta GA	OPT OPT	TACOM TACOM	Jan-00 Jan-01	Oct-00 Jan-01	33 14	38 41	yes yes		
REMARKS: Pine Bluff Arsenal is a government owned / government operated facility. Work is performed through work orders, not contracts. 120mm mortar components (Shell bodies, M1020 ignition cartridge, M31 Fin, M234 Prop charge, and PA153 & PA154 Containers) are procured on same contracts as for other 120mm mortar rounds.										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG 120MM APFSDS-T M829A2/M829E3 (E78001)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	78	28	20	3	7		5	7	7	7		162	
Gross Cost	1250.1	97.7	75.2	14.6	31.4	0.0	37.4	35.6	35.5	35.4	0.0	1612.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	295.0	97.7	75.2	14.6	31.4	0.0	37.4	35.6	35.5	35.4	0.0	657.8	
Initial Spares													
Total Proc Cost	295.0	97.7	75.2	14.6	31.4	0.0	37.4	35.6	35.5	35.4	0.0	657.8	
Flyaway U/C													
Wpn Sys Proc U/C	3782.0	3489.0	3667.0	5844.0	4484.0		7480.0	5086.0	5071.0	5057.0		4061.0	

DESCRIPTION:
5873
The 120MM M829A2 Armor Piercing Fin-Stabilized, Discarding Sabot with Tracer (APFSDS-T) cartridge is designed to be the most effective anti-armor kinetic energy round fired by the M256 120MM smooth bore cannon of Abrams Main Battle Tank. The propellant system consists of a combustible cartridge case mounted on a steel stub base and filled with kerded propellant. The propellant is ignited by a M129 electric primer. The projectile incorporated a segmented graphite reinforced plastic sabot held in place by a plastic band which separates in flight to allow the discarding of the sabot from the super depleted uranium (SDU) penetrator. A synthetic rubber seal is molded to the base of the sabot assembly to prevent the forward escape of hot propellant gases. The M829A2, although using similar components of the M829A1 APFDS-T, has been technologically improved to provide significantly greater armor penetration capability than the older round.

JUSTIFICATION:
Procurement maintains the Abrams Main Battle Tank as a lethal direct fire assault vehicle by building a war reserve inventory of anti-armor cartridges in accordance with the Army's procurement goal.

Acquisition Manager: Project Manager, Tank and Medium-Cal Armament Systems (PM-TMAS)

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG 120MM APFSDS-T M829A2/M829E3 (E78001)				Weapon System Type:		Date: February 2000	
ID			FY 98		FY 99		FY 00		FY 01					
Cost Elements			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
Complete Round						9218	2500	3687			28000	7000	4000	
SubTotal AMMO Hardware						9218			28000					
Production Support Costs														
Production Engineering						3616					1987			
Quality Assurance						955					650			
Acceptance Testing						480					750			
SubTotal Prod. Support						5051			3387					
COST - Nonrecurring														
ECP's						340								
SubTotal COST-Nonrecurring						340								
TOTAL						14609		5844	31387		4484			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG 120MM APFSDS-T M829A2/M829E3 (E78001)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Specs Avail Revisn Avail	RFP Issue Date
1. COMPLETE ROUND FY99	Primex Technologies St. Petersburg, FL	SS/FP	ARDEC	Apr-99	Mar-00	2500	3687	yes	no	
FY00	Primex Technologies St. Petersburg, FL	SS/FP	ARDEC	Apr-00	Mar-01	7000	4000	yes	no	
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:		CTG 120MM HEAT-MP-T M830A1 (E78007)								
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
Program Elements for Code B Items:		Code:		Other Related Program Elements:								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	65	9	3	2	2							81
Gross Cost	483.9	30.9	7.7	10.9	14.7	0.0	0.0	0.0	0.0	0.0	0.0	548.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	483.9	30.9	7.7	10.9	14.7	0.0	0.0	0.0	0.0	0.0	0.0	548.1
Initial Spares												
Total Proc Cost	483.9	30.9	7.7	10.9	14.7	0.0	0.0	0.0	0.0	0.0	0.0	548.1
Flyaway U/C												
Wpn Sys Proc U/C	3545.0	3433.0	2961.0	6238.0	5909.0							3637.0

DESCRIPTION:
The 120MM M830A1 Multi-Purpose (MP) cartridge is effective against light armor, air defense and materiel. This round is fired from the M256 120MM cannon mounted on the Abrams tank. Appropriate targets include lightly armored vehicles with reactive armor, helicopters, buildings and bunkers, the side and rear aspects of tanks, and dismounted anti-tank and automatic weapons teams. The fixed round utilizes a combustible cartridge case affixed to a steel stub and loaded with granular propellant. The fin-stabilized, high chrome alloy steel projectile body is press-loaded with explosive, a precision copper liner and booster. The base element is armed during launch and initiated by an impact switch or proximity sensor, depending upon the operational mode selected by the tank crew. Arming is accomplished through the ballistic environment of firing, set back and deceleration. This item is code A, approved for service use.

JUSTIFICATION:
Procurement builds war reserve inventory in accordance with the Army's procurement goal. The production and fielding of the M830A1 provides increased accuracy when compared to the currently fielded M830 High Explosive Anti-Tank Multi-Purpose with Tracer (HEAT-MP-T) cartridge, due to reduced time of flight. The M830A1 provides the individual tank crew with the self-defense capability to engage and defeat attacking helicopter platforms. The M830A1 replaces the currently fielded M830 round to provide significantly enhanced capability to the 120MM gun tank fleet.

Acquisition Manager: Project Manager, Tank and Medium-Cal Armament Systems (PM-TMAS).

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG 120MM HEAT-MP-T M830A1 (E78007)			Weapon System Type:			Date: February 2000		
Cost Elements			FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE Complete Round						7131	1750	4075	11600	2490	4659			
SubTotal AMMO Hardware						7131			11600					
Production Support Costs						2139			1750					
Quality Assurance						440			450					
Acceptance Testing						506			513					
SubTotal Prod. Support						3085			2713					
COST - Nonrecurring														
XM908 Conversion						700			400					
SubTotal COST-Nonrecurring						700			400					
TOTAL						10916		6238	14713		5909			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000											
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:																			
PROCUREMENT OF AMMUNITION / 1 / Ammunition		CTG 120MM HEAT-MP-T M830A1 (E78007)																			
WBS Cost Elements:		Contractor and Location		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$000		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
Fiscal Years																					
1. COMPLETE ROUND		Alliant Techsystems Minneapolis, MN		SS/FP		ARDEC		Mar-99		Aug-00		1750		4075		yes		no			
FY99																					
FY00		Alliant Techsystems Minneapolis, MN		SS/FP		ARDEC		May-00		Aug-01		2490		4659		yes		no			
REMARKS:																					

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG TANK 120MM TP-T M831/M831A1 (E73300)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	632	93	91	105	57	87	86	85	76	74		1386	
Gross Cost	558.3	54.5	59.7	58.3	32.4	48.5	47.9	48.7	48.0	48.0	0.0	1004.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	558.3	54.5	59.7	58.3	32.4	48.5	47.9	48.7	48.0	48.0	0.0	1004.3	
Initial Spares													
Total Proc Cost	558.3	54.5	59.7	58.3	32.4	48.5	47.9	48.7	48.0	48.0	0.0	1004.3	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
<p>The 120mm M831A1 Target Practice-Tracer (TP-T) is a target practice round that simulates the ballistics of the chemical energy service round (M830). This round is fired from the M256 120mm smooth bore cannon on the M1A1/M1A2 Abrams tank. The projectile is inert and is composed of a steel spike aluminum body, ring, stabilizer, nylon obturator, and tracer. The stabilizer spins the round in flight. This item is Code A, approved for service use.</p>													
JUSTIFICATION:													
<p>This is a training unique item; not used in combat. Tank crews conduct live fire training with this round to meet and maintain gunnery proficiency. FY01procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The acquisition strategy for FY99-FY03 will be a five year multi-year production contract.</p>													
TYPE CLASSIFICATION DATE: 1983													
ACQUISITION MANAGER: IOC, Rock, Island, III													

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG TANK 120MM TP-T M831/M831A1 (E73300)				Weapon System Type:		Date: February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
		TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty				
Cost Elements													
AMMUNITION HARDWARE													
Complete Round													
</													

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:		P-1 Line Item Nomenclature: CTG TANK 120MM TP-T M831/M831A1 (E73300)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date RFP Issued	
Complete Round										
FY 99	Primex Tech, Inc. St. Petersburg, FL	CM-1/FP IOC	IOC	Feb-99	Oct-99	50906	#521.48		Dec 98	
FY 99	Alliant Tech Sys. Inc New Brighton, MN	CM-1/FP IOC	IOC	Feb-99	Nov-99	54094	518.07		Jan 99	
FY 00	Primex Tech, Inc. St. Petersburg, FL	CM-2/FP IOC	IOC	Jan-00	Jan-01	28500	518.07	YES	Oct 99	
FY 00	Alliant Tech Sys. Inc New Brighton, MN	CM-2/FP IOC	IOC	Jan-00	Dec-00	28500	518.07	YES	Oct 99	
FY 01	TBS	CM-3/FP IOC	IOC	Jan-01	Oct-01	87000	518.07	YES	Oct 00	
REMARKS:										
# Actual Contract Price for multiple producers										
Multi-Year II Procurement FY 99 - FY 03										
Multi-year contracting with the two current producers will maintain a stable production base and will assure continued timely delivery of user requirements.										
TBS - To Be Selected										

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE															P-1 Item Nomenclature: CTG TANK 120MM TP-T M831/M831A1 (E73300)															Date: February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE															P-1 Item Nomenclature: CTG TANK 120MM TP-T M831/M831A1 (E73300)															Date: February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG TANK 120MM TPCSDS-T M865 (E73400)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	1659	211	189	240	165	199	198	198	156	152		3367	
Gross Cost	1111.8	115.4	114.8	122.8	85.4	101.5	100.9	100.9	93.3	93.3	0.0	2040.2	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	1111.8	115.4	114.8	122.8	85.4	101.5	100.9	100.9	93.3	93.3	0.0	2040.2	
Initial Spares													
Total Proc Cost	1111.8	115.4	114.8	122.8	85.4	101.5	100.9	100.9	93.3	93.3	0.0	2040.2	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The 120mm M865 Target Practice Cone-Stabilized Discarding Sabot with Tracer (TPCSDS-T) is a target practice round that simulates the ballistics of the 120mm M829A2 Armor Piercing Fin-stabilized Discarding Sabot with Tracer round. This round is fired from the M256 120mm cannon on the M1A1/M1A2 Abrams tank. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The requested ammunition is required to support annual tank proficiency training for 120mm gunned tanks. Training with this round simulates the firing of the Army's most lethal armor-defeating kinetic energy round in support of Army readiness objectives. The acquisition strategy for FY99/FY03 will be a five year multi-year production contract.

TYPE CLASSIFICATION DATE: 1984

ACQUISITION MANAGER: IOC, Rock Island, Ill

Exhibit P-5a, Budget Procurement History and Planning										Date:
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						February 2000
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG TANK 120MM TPCSDS-T M865 (E73400)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Complete Round										#####
FY 99	Primex Tech, Inc St. Petersburg, FL	CM-1/FP IOC		Feb-99	Dec-99	117	#492.00			
FY 99	Alliant Tech Sys, Inc New Brighton, MN	CM-1/FP IOC		Feb-99	Jan-00	123	#490.70			#####
FY 00	Primex Tech, Inc St. Petersburg, FL	CM-2/FP IOC		Jan-00	Oct-00	83	490.70	YES		Oct 99
FY 00	Alliant Tech Sys, Inc New Brighton, MN	CM-2/FP IOC		Jan-00	Nov-00	82	490.70	YES		Oct 99
FY 01	TBS	CM-3/FP IOC		Jan-01	Oct-01	199	490.70	YES		Oct 00
REMARKS: # Actual Contract Price for multiple producers Multi-Year I Procurement FY 95 - FY 98 Multi-Year II Procurement FY 99 - FY 03 Multi-Year contracting with the two current producers will maintain a stable production base and will assure continued timely delivery of user requirements. TBS - To Be Selected										

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE										P-1 Item Nomenclature: CTG TANK 120MM TPCSDS-T M865 (E73400)										Date: February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
COST ELEMENTS										MFR		FY		S		PROC QTY		ACCEP. PRIOR TO AS OF		BAL DUE		Fiscal Year 02										Fiscal Year 03										Fiscal Year 04																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition											CTG ARTY 105MM BLANK M395 (E21200)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	o Complete	Total Prog
Proc Qty	284				124							408
Gross Cost	6.8	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	13.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	6.8	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	13.5
Initial Spares												
Total Proc Cost	6.8	0.0	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	13.5
Flyaway UIC												
Wpn Sys Proc UIC												

DESCRIPTION:

The cartridge 105mm blank M395 consists of a short cartridge containing a black powder charge and primer. The cartridge case is either brass, steel, or aluminum. The round weighs 6.0 lbs and is fired from the M101, M101A1, M102, and M119 howitzers. This cartridge is used to support training exercises, retreat ceremonies, VIP salutes, and burial ceremonies. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training unique item, not used in combat. Procurement supports annual training and builds toward a 200-day depot level, supporting authorized retention quantity for use upon death of past Presidents.

TYPE CLASSIFICATION DATE:
1962

ACQUISITION MANAGER:

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: CTG ARTY 105MM BLANK M395 (E21200)				Weapon System Type:		Date: February 2000						
ID	CD	FY 98		FY		FY 00		FY 01		UnitCost	Qty	TotalCost	UnitCost	Qty	UnitCost	Qty	TotalCost	
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty									UnitCost
Cost Elements		\$	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000
AMMUNITION HARDWARE Load, Assemble, and Pack Primer Perc M61																		
SubTotal AMMO Hardware																		
Production Support Costs																		
Load, Assemble, and Pack																		
Primer Perc M61																		
SubTotal Prod. Support																		
TOTAL																		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG ARTY 10SMM BLANK M395 (E21200)								
WBS Cost Elements: Fiscal Years		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	Issue
Load, Assemble, and Pack FY 00		SS/FP IOC	American Ordnance Middletown, IA	Mar-00	Jan-01	124	51.36	Y		Oct 99
Primer Perc M61 FY 00		C/FP IOC	TBS	Jan-00	Dec-00	146	0.62	Y		Oct 99
REMARK TBS - To Be Selected										

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:			P-1 Item Nomenclature:									
PROCUREMENT OF AMMUNITION / 1 / Ammunition			CTG ARTY 105MM DPICM XM915 (E53500)									
Program Elements for Code B Items:			Other Related Program Elements:									
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty		4	5		3							12
Gross Cost	0.0	12.8	9.6	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	27.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	12.8	9.6	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	27.3
Initial Spares												
Total Proc Cost	0.0	12.8	9.6	0.0	4.9	0.0	0.0	0.0	0.0	0.0	0.0	27.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The 105mm Dual Purpose Improved Conventional Munition (DPICM) is the extended range round for the M119A1 howitzer. This cartridge incorporates the M200 propelling charge whose projectiles contain a sub-munition payload of 42 dual purpose M80 grenades. The projectiles utilize a one piece all steel body/logive assembly which is scalloped to contain the cargo without additional ancillary hardware (keys, splines, spacers, etc.). Projectile functioning is the same as the 155mm ICM round, the M483A1. The M80 is a 1.22 inch diameter fragmentation shaped charge grenade optimized for the 105mm system. It uses a post embossed rhombus fragmentation pattern for superior anti-personnel performance. In response to the problem of hazardous battlefield duds, the M80 grenade will be the first ICM bomblet to utilize self destruct fuzing. This item is code B, not approved for service use.

JUSTIFICATION:
Procurement supports the acquisition of a more lethal artillery round and provides "deep strike" round capability for the Light Infantry Division (LID). It increases sustainability of the LID on the battlefield. It replaces the Cartridge, 105mm Anti-Personnel Improved Conventional Munition (APICM) M444. By utilizing a self-destruct fuze with sub-munition, the dud rate problem of any unexploded sub-munitions should be greatly reduced. Procurement builds war reserve stockpiles in support of the Army's procurement goal.

Type Classification Date: TC-Low Rate Procurement March 1998 TC Standard September 2000

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: CTG ARTY 105MM DPICM XM915 (E53500)		Weapon System Type:		Date: February 2000		
ID	CD	FY 98		FY 99		FY 00		FY 01		
		TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
Cost Elements										
AMMUNITION HARDWARE										
1. Load, Assemble, and Pack										
2. Projectile Metal Parts										
3. Fuze, ET M762*										
4. Grenade Body Assembly										
5. Fuzes, XM234 Grenade Self Destruct										
6. Cartridge Case XM217										
7. Container PA 117										
8. Other Hardware*										
SubTotal AMMO Hardware										
Production Support Costs										
Production Engineering										
Quality Assurance										
Acceptance Testing										
Interim Transportation										
SubTotal Prod. Support										
COST - Nonrecurring										
*Government Furnished Material										
SubTotal COST-Nonrecurring										
TOTAL										

Exhibit P-5a, Budget Procurement History and Planning														
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:			P-1 Line Item Nomenclature: CTG ARTY 105MM DPICM XM915 (E53500)			Date: February 2000				
WBS Cost Elements: Fiscal Years				Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Load, Assemble, and Pack FY00 2. Projectile Metal Parts FY00 3. Fuze, ET M762 FY00* 4. Grenade Body Assembly FY00 5. Fuzes, XM234 Grenade Self-Destruct FY00 6. Cartridge Case M217/Primer M28 FY00 7. Containers/Pallets FY00				Day & Zimmerman Inc		SS/FP	IOC	Feb-00	Feb-01	2626	293.00	Yes		
				Chamberlain Mfg (Scranton, PA)		SS/FP	TACOM-ARDEC	Apr-00	Feb-01	2626	493.00	Yes		
				Multiple		Stock	IOC	Stock	Stock	2626		Yes		
				Amron Corporation		SS/FP	TACOM-ARDEC	Apr-00	Feb-01	110290	3.00	Yes		
				KDI Precision Products (Cinn, OH)		SS/FP	TACOM-ARDEC	Apr-00	Feb-01	114660	10.00	No		
				Unknown		C/FP	TACOM-ARDEC	Apr-00	Feb-01	2626	54.00	Yes		
				Various		C/FP	TACOM-ARDEC	Apr-00	Feb-01	2626	75.00	Yes		
REMARKS: *Government Furnished Equipment. GFM is also in the Other Hardware line on the P5A. GFM includes Comp A5 and M10 Propellant.														

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG, ARTY, 105MM M927 (ES3300)	
Program Elements for Code B Items:												Other Related Program Elements:	
Codes:													
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty				7								7	
Gross Cost	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The 105MM High Explosive Rocket Assisted (HERA) Cartridge M927 has extended range capability and is used for fragmentation, blast and mining in support of ground troops and armored columns. It contains two distinctive preassembled components, a high explosive warhead and rocket motor. The round utilizes a seven bag propelling charge with flash reducer (M67) and is used with the M119, M101A1 and M102 Howitzer systems. This item is Code A, approved for service use.

JUSTIFICATION:

The procurement supports the acquisition of a more lethal artillery round and provides a "deep strike" round capability for the National Guard Bureau. It improves counter-battery fire and increases sustainability of the NGB on the battlefield. The M927 is used in lieu of the M913 HERA.

TYPE CLASSIFICATION: Sep 94

ACQUISITION MANAGER: IOC, Rock Island, IL

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG, ARTY, 105MM M927 (E93300)			Weapon System Type:			Date: February 2000		
Ammunition Cost Elements			FY 98			FY 99			FY 00			FY 01		
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
AMMUNITION HARDWARE														
		Load, Assemble, and Pack				1153	6804	169.45						
		Warhead Body Assembly				1028	6941	148.11						
		Rkt Motor Grain				1026	6941	147.76						
		Rkt Motor Body				447	6941	64.43						
		Ignition Delay				498	6941	71.78						
		Ctg Case Steel M14B4				75	6941	10.83						
		*M67 Prop Charge				133	6804	19.54						
		Primer 28B2				26	6941	3.69						
		*TNT Type I Flake (LB)				48	34191	1.41						
		Supplemental Charge				58	6941	8.39						
		SubTotal AMMO Hardware				4492								
Production Support Costs														
		Production Engineering				448								
		Quality Assurance				11								
		Acceptance Testing				52								
		Interim Transportation				49								
		Industrial Stock Support				87								
		SubTotal Prod. Support				647								
COST - Nonrecurring														
		Government Furnished Material				-181								
		SubTotal COST-Nonrecurring				-181								
TOTAL			4958											728.68

Exhibit P-5a, Budget Procurement History and Planning																					
Appropriation / Budget Activity/Serial No:				Weapon System Type:				P-1 Line Item Nomenclature:													
PROCUREMENT OF AMMUNITION / 1 / Ammunition				CTG, ARTY, 105MM M927 (E93300)				Date: February 2000													
WBS Cost Elements:				Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$		Specs Avail Now?		Date Revisn Avail		RFP Issue Date	
Fiscal Years																					
Load, Assemble, and Pack FY 99				TBS		IOC		May-00		Apr-01		6804		169.45		Y				Feb 00	
Warhead Body Assembly FY 99				TBS		IOC		May-00		Feb-01		6941		148.11		Y				Feb 00	
Rkt Motor Grain FY 99				TBS		IOC		May-00		Jan-01		6941		147.76		Y				Feb 00	
Rkt Motor Body FY 99				TBS		IOC		May-00		Jan-01		6941		64.43		Y				Feb 00	
Ignition Delay FY 99				TBS		IOC		May-00		Jan-01		6941		71.78		Y				Feb 00	
Ctg Case Steel M14B4 FY 99				TBS		IOC		May-00		Jan-01		6941		10.83		Y				Feb 00	
*M67 Prop Charge FY 99				Stock Issue		N/A		N/A		N/A		6804		N/A							
Primer 28B2 FY 99				TBS		IOC		May-00		Jan-01		6941		3.69		Y				Feb 00	
*TNT Type I Flake (LB) FY 99				Stock Issue		N/A		N/A		N/A		34191		N/A							
REMARKS:				*Government Furnished Material TBS - To Be Selected																	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition					CTG, ARTY, 105MM M927 (E93300)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Reven Avail	RFP Issue Date
Supplemental Charge FY 99	TBS	C/FP	IOC	Aug-99	Mar-00	6941	8.39	Y		Feb 00
REMARKS: TBS - To Be Selected										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												CTG ARTY 105MM ILLUM M314 SERIES (E21700)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	4112				12				7	6		4137	
Gross Cost	255.1	0.0	0.0	0.0	7.9	0.1	0.0	0.0	6.1	6.1	0.0	275.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	255.1	0.0	0.0	0.0	7.9	0.1	0.0	0.0	6.1	6.1	0.0	275.3	
Initial Spares													
Total Proc Cost	255.1	0.0	0.0	0.0	7.9	0.1	0.0	0.0	6.1	6.1	0.0	275.3	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

The 105mm M314 Illumination Cartridge is used to illuminate a designated target area. It has a hollow steel forged projectile with a streamlined ogive, gliding metal rotating band, and a pinned base plug. The projectile cavity contains the expelling charge, illuminating canister, and parachute assembly. The projectile is assembled with a MTSQ fuze. The round is fired in the M101, M101A1, M102 and M119 Howitzers. This item is Code A, approved for service use.

JUSTIFICATION:

Procurement supports acquisition of training and war reserve stockpile in accordance with Department of Defense guidance.

TYPE CLASSIFICATION: 1QFY70

ACQUISITION MANAGER: IOC, Rock Island, IL

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: CTG ARTY 105MM ILLUM M314 SERIES (E21700)			Weapon System Type:			Date: February 2000		
Ammunition Cost Elements			FY 98			FY 99			FY 00			FY 01		
ID	CD		TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$	TotalCost \$000	Qty Each	UnitCost \$
AMMUNITION HARDWARE														
Load, Assemble, and Pack														
Proj 105 M314A2E1														
*Ctg Case Steel M14B4														
*Charge Prop														
Prop M1 SP (LB)														
*Prop M1 MP (LB)														
*Primer 28B2														
*Fuze Artillery Elec Time M577														
Container Fiber M105A3														
SubTotal AMMO Hardware														
Production Support Costs														
Production Engineering														
Quality Assurance														
Interim Transportation														
Industrial Stock Support														
SubTotal Prod. Support														
COST - Nonrecurring														
Government Furnished Material														
SubTotal COST-Nonrecurring														
TOTAL														

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:					Weapon System Type:			Date: February 2000				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					P-1 Line Item Nomenclature: CTG ARTY 105MM ILLUM M314 SERIES (E21700)							
WBS Cost Elements: Fiscal Years		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Load, Assemble, and Pack FY 00		TBS		C/FP	IOC	Aug-00	Aug-01	11695	537.17	Y		Oct 99
Proj 105 M314AZE1** FY 00		TBS		C/FP	IOC	Aug-00	Jun-01	11929	106.21	Y		Oct 99
*Ctg Case Steel M14B4 FY 00		Stock Issue		N/A	N/A	N/A	N/A	11929	N/A			
*Charge Prop FY 00		Stock Issue		N/A	N/A	N/A	N/A	11929	N/A			
*Prop M1 SP (LB) FY 00		Stock Issue		N/A	N/A	N/A	N/A	7602	N/A			
*Prop M1 MP (LB) FY 00		Stock Issue		N/A	N/A	N/A	N/A	26080	N/A			
*Primer 28B2 FY 00		Stock Issue		N/A	N/A	N/A	N/A	23172	N/A			
*Fuze Artillery, Mech Time, M577 FY 00		Stock Issue		N/A	N/A	N/A	N/A	11695	N/A			
Container Fiber M105A3 FY 00		TBS		C/FP	IOC	Aug-00	May-01	11929	14.53	Y		Oct 99
REMARKS: TBS - To Be Selected **Pacing Component *Government Furnished Material												

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										PROJ ARTY 155MM SMOKE WP M825 (E67800)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Other Related Program Elements:											
Program Elements for Code B Items:		Code:											
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	460											460	
Gross Cost	194.4	11.6	12.3	0.0	14.6	14.7	0.0	0.0	0.0	0.0	0.0	247.6	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	194.4	11.6	12.3	0.0	14.6	14.7	0.0	0.0	0.0	0.0	0.0	247.6	
Initial Spares													
Total Proc Cost	194.4	11.6	12.3	0.0	14.6	14.7	0.0	0.0	0.0	0.0	0.0	247.6	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

This is a materiel change to the M825 series 155mm white phosphorous (WP) smoke projectile which is designed to be ballistically similar to the M483A1 family of projectiles and is compatible with all current and developmental U.S. 155mm artillery weapon systems. The M825 series projectile is required to provide fire support to forward area troops and equipment. Artillery delivered smoke screens are required in combat situations to support maneuver forces by reducing the effectiveness of enemy visual observation. The M825 series projectile consists of a modified M483A1 carrier, a felt wedge payload, a base, and a separately issued fuze. The modified carrier uses steel instead of the standard M483A1 fiber glass wrap about the circumference of the projectile carrier to offset the low density of the payload. The payload consists of 116 WP soaked felt wedges in a hermetically sealed canister positioned in the projectile body between the ogive and the base. The canister is a cylinder of thin rolled steel to which flat steel ends are welded. Either a mechanical or electronic time fuze is used to detonate the explosion charge setting off a chain reaction resulting in the expulsion, ignition, and dissemination of the felt wedges thus creating the desired smoke screen. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY01 procurement supports an urgently needed materiel change to correct current design defects that result in a high malfunction rate which threatens the safety of the using unit. The purpose of the materiel change is to test an improved design to allow resumption of prior year production and subsequent renovation of existing stocks. Renovation of these stocks is required to support annual peacetime training requirements and build a war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1982

ACQUISITION MANAGER: IOC, Rock Island, Ill.

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 2000
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
P-1 Item Nomenclature:												PROJ ARTY 155MM HE M795 (E66800)
Program Elements for Code B Items:												
Code:												Other Related Program Elements:
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	210	84	69		17							380
Gross Cost	105.2	39.9	34.6	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	189.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	105.2	39.9	34.6	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	189.6
Initial Spares												
Total Proc Cost	105.2	39.9	34.6	0.0	9.8	0.0	0.0	0.0	0.0	0.0	0.0	189.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The M795 projectile consists of 23.8 pounds of TNT explosive loaded into a 78.1 pound high fragmentation steel body assembly. The projectile is fitted with a protective shock attenuating lifting plug at the nose and a grommet which protects the rotating band during shipping and handling. The projectile can use several different fuzes (impact, mechanical time and short intrusion proximity). The M795 will supplement the currently stockpiled M107. It will be used for conventional fire support for Harassment and Interdiction, fragmentation, mining and blast effect. It is also used as a registration round for the M483A1 family of cargo munitions and can be used a registration round for the 155mm Sense and Destroy Armor (SADARM) M898. It provides greater range and effectiveness than the M107, which cannot be fired at top zone with the M203A1 (Zone 8) charge.

JUSTIFICATION: The FY 2000 budget provides for production of war reserve requirements. This item is Code A, approved for service use. The M795 will support the following howitzers: M198, M109 Series, including Paladin, and the Trilateral FH70 and Crusader.

TYPE CLASSIFICATION DATE: February 1982

ACQUISITION MANAGER: PM ARMS

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M795 (E66800)				Weapon System Type:		Date: February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01		UnitCost	Qty	UnitCost	Qty
		TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty				
Cost Elements		\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each	\$000	Each
AMMUNITION HARDWARE													
Load, Assemble, and Pack										1949	17	116	
Metal Parts										3550	17	204	
Metal Pallets										408	3	163	
Lifting Plugs										122	17	7	
TNT										1297	260	5	
SubTotal AMMO Hardware										7326			
Production Support Costs										1881			
Production Engineering										80			
Quality Assurance										496			
Acceptance Testing													
SubTotal Prod. Support										2457			
TOTAL										9783			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:			P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M795 (E68800)					
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Load, Assemble, and Pack FY 00	American Ordnance, Iowa AAP, IA	Option	ARDEC, Picatinny Arsenal	Mar-00	Apr-02	17	116	Yes		
Metal Parts FY 00	Chamberlain Mfg, Scranton AAP, PA	Option	ARDEC, Picatinny Arsenal	Mar-00	Feb-02	17	204	Yes		
Metal Pallets FY 00	Nomura, Milan, IL	Option	ARDEC, Picatinny Arsenal	Mar-00	Feb-02	3	163	Yes		
Lifting Plugs FY 00	H/R Products, South Bend, IN	Option	ARDEC, Picatinny Arsenal	Mar-00	Feb-02	17	7	Yes		
TNT FY 00	TBS	C/FFP	ARDEC, Picatinny Arsenal	Mar-00	Feb-02	260	5	Yes		
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000				
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:			PROJ ARTY 155MM SADARM M898 (E66300)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:					
Program Elements for Code B Items:												Code:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog					
Proc Qty	233	600	200			30						1063					
Gross Cost	74.7	93.6	65.3	31.3	14.9	14.9	0.0	0.0	0.0	0.0	0.0	294.8					
Less PY Adv Proc																	
Plus CY Adv Proc																	
Net Proc (P-1)	74.7	93.6	65.3	31.3	14.9	14.9	0.0	0.0	0.0	0.0	0.0	294.8					
Initial Spares																	
Total Proc Cost	74.7	93.6	65.3	31.3	14.9	14.9	0.0	0.0	0.0	0.0	0.0	294.8					
Flyaway U/C																	
Wpn Sys Proc U/C																	
<p>DESCRIPTION: The 155mm Sense and Destroy Armor (SADARM) projectile will provide an enhanced counterbattery and anti-armored vehicle capability to attack targets well beyond the Forward Line of Troops (FLOT). The SADARM projectile will function in a fire and forget mode. This indirect fire mission can be accomplished under inclement weather, degraded battlefield conditions and Nuclear, Biological, Chemical (NBC) environments, both day and night. The SADARM munitions are designed for use against self-propelled howitzers, armored personnel carriers and other stationary armored threat vehicles encountered in counterfire, close support, suppression of Enemy Air Defense (SEAD) and interdiction. The 155mm SADARM is delivered in the same manner as other 155mm munitions. Once dispensed from its carrier, the submunition detects targets using dual-mode millimeter wave and infrared sensors, and fires an explosively formed penetrator through the top of the target. The projectile is compatible with the momentum limits of standard and developmental 155mm Howitzers including Crusader and LW155 Towed. It is ballistically similar to the cargo family of 155mm ammunition. Operational interface with other systems will be accomplished through Tactical Fire Control System (TACFIRE), Advanced Field Artillery Tactical Data System (AFATDS), and appropriate target acquisition sources. The item is Code A, approved for limited service use.</p> <p>JUSTIFICATION: The SADARM procurement will provide pinpoint accuracy to destroy hardened targets and will reduce consumption of artillery ammunition. SADARM will support the Howitzer M109 series, including Paladin and M198 Howitzer systems. The Army has limited SADARM procurements after FY 1998 subject to results of an operational Limited User Test (LUT) in April 2000. The FY 1999 and FY 2000 planned procurements are for zero quantity. Funding appropriated in FY 1999 and FY 2000 provides Government engineering and test support to continued prior year hardware deliveries. Additionally, funding will be provided to the Prime Contractor to stretch out the prior year deliveries thereby avoiding a production break and the associated costs of restarting the production line. Following the LUT, the Army will make a decision regarding the follow-on production of SADARM.</p> <p>Type Classification Dates: Low Rate Production: January 1995 Milestone Approval: Milestone IIIA (DAB): March 1995 ACQUISITION MANAGER: PM ARMS</p> <p>NOTE: Quantities have been updated since the Future Years Defense Program (FYDP).</p>																	

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: PROJ ARTY 155MM SADARM M898 (E66300)				Weapon System Type:		Date: February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty				
Cost Elements		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$	\$	\$
AMMUNITION HARDWARE													
Complete Round										10800	30		360000
SubTotal AMMO Hardware								10800					
Production Support Costs													
Production Engineering					6208			4239					
Quality Assurance					421			285					
Acceptance Testing/Reliability Testing					1573			800					
Production Testing					1617								
Contract Restructure for Production Stretch Out					10730			9614					
SubTotal Prod. Support					20549			14938					
COST - Nonrecurring													
First Article Testing					9456								
Value Engineering & Royalties					1270								
Target Replacement													
SubTotal COST-Nonrecurring					10726								
TOTAL					31275			14938				14907	

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000										
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:																			
PROCUREMENT OF AMMUNITION / 1 / Ammunition		PROJ ARTY 155MM SADARM M898 (E66300)																			
WBS Cost Elements:		Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY Each		Unit Cost \$		Specs Avail Now?		Date Revisn Avail		RFP Issue Date			
Fiscal Years		Contractor and Location																			
Complete Round FY 01		Aerojet, Azusa CA		FFP/SS		ARDEC, Picatinny Arsenal		Dec-00		Dec-01		30		360000		Yes					
REMARKS:																					

Exhibit P-40, Budget Item Justification Sheet										Date:		
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition				REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM) (E67505)								
Program Elements for Code B Items:				Other Related Program Elements:								
Code:												
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty						117	110	110				337
Gross Cost	0.0	0.0	0.0	0.0	8.0	47.7	47.6	47.5	0.0	0.0	0.0	150.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	8.0	47.7	47.6	47.5	0.0	0.0	0.0	150.8
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	8.0	47.7	47.6	47.5	0.0	0.0	0.0	150.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The Remote Area Denial Artillery Munition (RADAM) projectile, is a single shot device used with 155mm howitzers. The RADAM will use the existing Area Denial Artillery Munition (ADAM) and Remote Anti-Armor Munition (RAAM) submunitions to emplace artillery-delivered minefields to delay, disrupt, destroy and deny the enemy the use of certain terrain. Each RADAM projectile will contain anti-personnel and anti-armor submunitions that will self-destruct at a preset period of time. No modifications will be made to the submunitions. The RAAMS anti-armor mines accomplish the area denial objective of the minefield. The anti-armor mine arms after coming to rest on the ground. Any threat armored object passing over the mine will cause it to initiate and damage or destroy the vehicle. The ADAM anti-personnel submunitions prevent enemy personnel from neutralizing/breaching the RAAMS in the minefield, after the minefield has been emplaced. The anti-personnel submunitions arm themselves after coming to rest on the ground. Individual trip wires will be extended from each submunition. When disturbed by enemy movement, the trip wire will activate the explosive sequence.

JUSTIFICATION:

The RADAM projectile program is an initiative to implement Presidential policy and DoD direction. The National Command Authorities (NCA) have determined that the use of a single projectile with mixed systems containing both self-destruct (SD) anti-personnel and anti-armor submunitions preserves the right to employ artillery delivered FASCAM (Family of Scatterable Mines) mines in order to deny enemy the use of certain terrain and for force protection.

Type Classification Date: (Projected) April 2000; Initial Operational Capability: (Projected) April 2001

Acquisition Manager: Project Manager for Mines, Countermine and Demolitions (PM-MCD)

DESCRIPTION:

The Remote Area Denial Artillery Munition (RADAM) projectile, is a single shot device used with 155mm howitzers. The RADAM will use the existing Area Denial Artillery Munition (ADAM) and Remote Anti-Armor Munition (RAAM) submunitions to emplace artillery-delivered minefields to delay, disrupt, destroy and deny the enemy the use of certain terrain. Each RADAM projectile will contain anti-personnel and anti-armor submunitions that will self-destruct at a preset period of time. No modifications will be made to the submunitions. The RAAMS anti-armor mines accomplish the area denial objective of the minefield. The anti-armor mine arms after coming to rest on the ground. Any threat armored object passing over the mine will cause it to initiate and damage or destroy the vehicle. The ADAM anti-personnel submunitions prevent enemy personnel from neutralizing/breaching the RAAMS in the minefield, after the minefield has been emplaced. The anti-personnel submunitions arm themselves after coming to rest on the ground. Individual trip wires will be extended from each submunition. When disturbed by enemy movement, the trip wire will activate the explosive sequence.

JUSTIFICATION:

The RADAM projectile program is an initiative to implement Presidential policy and DoD direction. The National Command Authorities (NCA) have determined that the use of a single projectile with mixed systems containing both self-destruct (SD) anti-personnel and anti-armor submunitions preserves the right to employ artillery delivered FASCAM (Family of Scatterable Mines) mines in order to deny enemy the use of certain terrain and for force protection.

Type Classification Date: (Projected) April 2000; Initial Operational Capability: (Projected) April 2001

Acquisition Manager: Project Manager for Mines, Countermine and Demolitions (PM-MCD)

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM) (E87505)				Weapon System Type:		Date: * February 2000	
ID	CD	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
		TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty				
Cost Elements		\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	x1000	\$	\$
HARDWARE LOAD, ASSEMBLE AND PACK COMPLETE ROUND								5625				43875	117
SUBTOTAL								5625				43875	
PRODUCTION SUPPORT COSTS PRODUCTION ENGINEERING QUALITY ASSURANCE ACCEPTANCE TESTING								1297 556				840 389 2570	
SUBTOTAL								1853				3799	
NON RECURRING COSTS Tooling Storage and Handling								90 399					
SUBTOTAL								489					
TOTAL								7967				47674	

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition		Weapon System Type:		P-1 Line Item Nomenclature: REMOTE AREA DENIAL ARTILLERY MUNITION (RADAM) (467505)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
LOAD, ASSEMBLE AND PACK FY 01	Day & Zimmerman, Lone Star AAP	SS/FP	ARDEC	Dec-00	Apr-01	117	375	Yes		
REMARKS: FY00 funds will be used to procure long leadtime components.										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 2000
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
Program Elements for Code B Items:												PROJ ARTY 155MM HE M107 (E27601)
Code:												Other Related Program Elements:
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	26605			243	118	175	236	185	164	156		27882
Gross Cost	950.7	0.0	0.0	42.3	24.9	35.2	45.0	35.5	35.8	35.8		1205.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	950.7	0.0	0.0	42.3	24.9	35.2	45.0	35.5	35.8	35.8	0.0	1205.2
Initial Spares												
Total Proc Cost	950.7	0.0	0.0	42.3	24.9	35.2	45.0	35.5	35.8	35.8	0.0	1205.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This is a multi-purpose high explosive projectile fired from 155mm howitzers. It is used for blast effect and fragmentation. The projectile may be loaded with either 14.6 pounds of TNT or 15.4 pounds of composition B explosives. The normal cavity model will not accommodate a proximity-type fuze. The deep-cavity model has a supplementary charge of .3 pounds which may be removed to allow the use of proximity fuzes. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training standard item used in both training and combat. FY01 procurement supports annual peacetime training requirements and builds war reserve inventory in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE: 1958

ACQUISITION MANAGER: IOC, Rock Island, Ill.

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M107 (E27601)				Weapon System Type:		Date: February 2000	
Cost Elements		ID	FY 98		FY 99		FY 00		FY 01				
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	TotalCost	UnitCost	
		cd	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$	
AMMUNITION HARDWARE													
Load, Assemble, and Pack			17197	243	70.91	8103	118	68.52	11987	175	68.69		
Proj M107 MPTS			19655	162	121.05	16048	121	133.04	18645	179	104.74		
*Proj M107 MPTS			9094	85	107.00								
*Comp B Type 1 Grade A (LB)			6090	3929	1.55	2970	1916	1.55	4439	2839	1.56		
*TNT Type 1 Flake (LB)			2325	1649	1.41	1134	804	1.41					
Supplemental Charge				203									
Plug, Shock Attenuating			803	162	4.95	603	121	5.00	909	179	5.12		
*Plug, Shock Attenuating			146	85	1.72								
Grommet			166	163	1.02	126	122	1.03	186	180	1.04		
*Grommet			68	85	0.80								
*Metal Pallet Assy			5992	30	196.87	2922	15	196.89	640	178	3.60		
*Supplemental Charge									992	178	5.58		
Reclaim OP F/Supp Chg													
SubTotal AMMO Hardware			61536			31906			37798				
Production Support Costs													
Production Engineering			2177			1			557				
Quality Assurance			79						13				
Acceptance Testing			127						1076				
Interim Transportation			614						265				
Industrial Stock Support			1519						548				
SubTotal Prod. Support			4516			1			2459				
COST- Nonrecurring													
Government Furnished Material			-23716			-7026			-5079				
SubTotal COST-Nonrecurring			-23716			-7026			-5079				
TOTAL			42336		174.57	24881		210.38	35178			201.56	

Exhibit P-5a, Budget Procurement History and Planning											Date:	February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			Weapon System Type:			P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M107 (E27601)						
WBS Cost Elements:		Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date	
Fiscal Years												
Load, Assemble, and Pack												
FY 99		American Ordnance (IAAP) Middletown, IA	CM-2/FP	IOC	Mar-00	Mar-01	44	68.52			Dec 98	
FY 99		American Ordnance (IAAP) Middletown, IA	CM-1/FP	IOC	Feb-99	Jun-00	199	71.43			Nov 98	
FY 00		American Ordnance (IAAP) Middletown, IA	CM-2/FP	IOC	Mar-00	Jun-01	118	68.52	Y		Dec 99	
FY 01		American Ordnance (IAAP) Middletown, IA	CM-3/FP	IOC	Mar-01	Mar-02	175	68.69	Y		Dec 00	
*Proj M107 Metal Parts **												
FY 99***		Chamberlain Mfg (SCAAP) Scranton, PA	SS/FP	IOC	Aug-99	Jul-00	118	121.05			May 99	
FY 99		TBS	C/FP	IOC	Mar-00	Jan-01	44	121.05			May 99	
FY 99		Stock Issue	N/A		N/A	N/A	85	N/A				
FY 00***		Chamberlain Mfg (SCAAP) Scranton, PA	SS/FP	IOC	Mar-00	Apr-01	121	133.04	Y		Dec 99	
FY 01***		Chamberlain Mfg (SCAAP) Scranton, PA	SS/FP	IOC	Mar-01	Jan-02	179	104.74	Y		Dec 00	
*Comp B Type 1 Grade A (LB)												
FY 99		Stock Issue	N/A	N/A	N/A	N/A	705	N/A				
FY 99		Stock Issue	N/A	N/A	N/A	N/A	3224	N/A				
FY 00		Stock Issue	N/A	N/A	N/A	N/A	1916	N/A				
FY 01		Stock Issue	N/A	N/A	N/A	N/A	2839	N/A				
*TNT Type 1 Flake (LB)												
FY 99		Stock Issue	N/A	N/A	N/A	N/A	1649	N/A	Y			
FY 00		Stock Issue	N/A	N/A	N/A	N/A	804	N/A	Y			
REMARKS:												
*Government Furnished Material												
**Pacing Component												
TBS-To Be Selected												
***The Projectile, M107 Metal Parts is a below-threshold, 5-year multiyear contract (FY99-03)												

Exhibit P-5a, Budget Procurement History and Planning												
Appropriation / Budget Activity/Serial No:				Weapon System Type:				Date: February 2000				
PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: PROJ ARTY 155MM HE M107 (E27601)								
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Fiscal Years								x1000	\$			
*Plug, Shock Attenuating		TBS		C/FP	IOC	Mar-00	Aug-00	44	4.95			
FY 99		Stock Issue		N/A		N/A	N/A	85	N/A			Oct 99
FY 99		TBS		C/FP	IOC	Mar-00	Dec-00	121	5.00	Y		Oct 00
FY 00		TBS		C/FP	IOC	Mar-01	Jan-02	179	5.11	Y		
FY 01												
Grommet		Midgard Inc, Greenlake, PA		C/FP	IOC	Oct-99	Feb-00	118	1.02			Jul 99
FY 99		TBS		C/FP	IOC	Mar-00	Nov-00	45	1.03			Dec 99
FY 99		TBS		C/FP	IOC	Mar-00	Nov-00	122	1.03	Y		Oct 99
FY 00		TBS		C/FP	IOC	Mar-01	Nov-01	180	1.04	Y		Oct 00
FY 01												
*Grommet		Stock Issue		N/A		N/A	N/A	85	N/A			
FY 99												
*Metal Pallet Assy		Stock Issue		N/A	N/A	N/A	N/A	30	N/A			
FY 99		Stock Issue		N/A	N/A	N/A	N/A	15	N/A			
FY 00												
*Supplemental Charge		Stock Issue		N/A	N/A	N/A	N/A	178	N/A			
FY 01												
Reclaim OP F/Supp Chg		TBS		C/FP	IOC	Jan-01	Sep-01	178	5.58	Y		Oct 00
FY 01												
REMARKS: * Government Furnished Material TBS - To Be Selected												

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:				MODULAR ARTILLERY CHARGE SYSTEM (MACS) (ER8021)				
PROCUREMENT OF AMMUNITION / 1 / Ammunition												
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					367	164	555	760	688	582		3116
Gross Cost	0.0	0.0	0.0	0.0	42.6	27.4	57.7	77.6	68.1	57.7	0.0	331.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	42.6	27.4	57.7	77.6	68.1	57.7	0.0	331.1
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	42.6	27.4	57.7	77.6	68.1	57.7	0.0	331.1
Flyaway U/C												
Wpn Sys Proc U/C												
<p>DESCRIPTION: The Modular Artillery Charge System (MACS) is intended for use with US 155mm cannon field artillery systems including the M198 and XM777 towed cannon systems, the M109A3/A4/A5 and M109A6 Paladin self-propelled systems, and the XM2001 Crusader system. MACS consists of the XM231 "low zone" increment designed to achieve ranges from 3.0 to 11.5 km, the XM232 "high zone" increment designed to achieve ranges from 10-40+ km and their associated packaging. Each MACS increment includes propellant, an ignition system, and a combustible case. Performance enhancing additives are included in the XM232 "high zone" increment. Packaging permits long-term storage, transportation and helps protect the items from unplanned stimuli.</p> <p>JUSTIFICATION: MACS is required to achieve necessary improvements to 155mm cannon field artillery operational flexibility, range, rate-of-fire, system accuracy and IM compliance; especially when used with the XM2001 Crusader system. In addition, MACS is less expensive to procure than the current family of artillery propelling charges and is projected to decrease operation and support costs associated with artillery propelling charges at least 10% once fielded.</p> <p>Type Classification Date: XM231 25 Oct 99, XM232 2Q FY00</p> <p>Acquisition Manager: PM Crusader</p>												

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYSTEM (MACS) (ER8021)			Weapon System Type:			Date: February 2000		
ID	CD		FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Elements			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE														
Load, Assemble, and Pack									15200	367	41	7100	164	43
Ignition System Propellant									500	25	20	250	12	21
Combustible Case Sets									14401	400	36	6780	180	38
Propellant (Single Base)									8910	1200	7	4590	540	9
Propellant (Triple Base)												2900	360	8
SubTotal AMMO Hardware									39011			21620		
Production Support Costs														
Production Engineering									1790			1800		
Quality Assurance									500			600		
Acceptance Testing												500		
Transportation												300		
SubTotal Prod. Support									2290			3200		
COST - Nonrecurring														
First Article Testing												600		
Value Engineering									500			450		
Inert Training Devices									800			800		
Fielding												762		
SubTotal COST-Nonrecurring									1300			2612		
TOTAL									42601		116	27432		167

Exhibit P-5a, Budget Procurement History and Planning														
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition					Weapon System Type:			P-1 Line Item Nomenclature: MODULAR ARTILLERY CHARGE SYSTEM (MACS) (ER8021)						
WBS Cost Elements: Fiscal Years					Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$000	Specs Avail Now?	Date Revis Avail	RFP Issue Date
AMMUNITION HARDWARE														
Load, Assemble, and Pack														
FY 00					TBS	C/FFP	Picatinny Arsenal,NJ	Jun-00	Jan-01	367	41	Yes		Feb 00
FY 01					TBS	C/FFP	Picatinny Arsenal,NJ	Dec-00	Jan-02	164	43	No		Sep 00
Ignition System Propellant														
FY 00					Primex Tech, St. Marks,Fla	SS/FFP	Picatinny Arsenal,NJ	Apr-00	Nov-00	25	20			Jul 99
FY 01					Primex Tech, St. Marks,Fla	Option	Picatinny Arsenal,NJ	Dec-00	Nov-01	12	21			
Combustible Case Sets														
FY 00					ARMTEC, Coachella, CA	SS/FFP	Picatinny Arsenal,NJ	Apr-00	Nov-00	400	36			Jul 99
FY 01					ARMTEC, Coachella, CA	SS/FFP	Picatinny Arsenal,NJ	Dec-00	Nov-01	180	38			Jul 00
Propellant (Single Base)														
FY 00					TBS	C/FFP	TBS	May-00	Dec-00	1200	7			Jul 99
FY 01					TBS	Option	TBS	Dec-00	May-01	540	9			
Propellant (Triple Base)														
FY 01					TBS	C/FFP	TBS	Feb-01	Oct-01	360	8			Dec 00
REMARKS:														

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000	
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:		ARTILLERY FUZES, ALL TYPES (ER8000)
PROCUREMENT OF AMMUNITION / 1 / Ammunition											Other Related Program Elements:		
Program Elements for Code B Items:											Code:		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	504.6	0.3	19.7	6.8	45.7	67.0	67.6	76.0	75.6	67.2	0.0	930.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	504.6	0.3	19.7	6.8	45.7	67.0	67.6	76.0	75.6	67.2	0.0	930.5	
Initial Spares													
Total Proc Cost	504.6	0.3	19.7	6.8	45.7	67.0	67.6	76.0	75.6	67.2	0.0	930.5	
Flyaway U/C													
Wpn Sys Proc U/C													

This budget line includes Artillery Fuzes, All Types.

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: ARTILLERY FUZES, ALL TYPES (ER8000)				Weapon System Type:		Date: February 2000	
Cost Elements		ID	CD	FY 98			FY 99			FY 00			FY 01		
				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
				\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
FUZE ARTY ELEC TIME M767							4967	27	184	31790	257	124	5343	46	116
FUZE ARTY PROX M732							325								
FUZE MULTI OPTION							1502	2	751	13951	45	310	45633	164	278
FUZE ARTY ELEC TIME M762													16029	125	128
TOTAL							6794			45741			67005		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												FUZE ARTY ELEC TIME M767 (E61200)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	321		83	27	257	46	27	59	42	39		901	
Gross Cost	41.5	0.3	19.7	5.0	31.8	5.3	3.6	6.8	4.8	4.5	0.0	123.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	41.5	0.3	19.7	5.0	31.8	5.3	3.6	6.8	4.8	4.5	0.0	123.3	
Initial Spares													
Total Proc Cost	41.5	0.3	19.7	5.0	31.8	5.3	3.6	6.8	4.8	4.5	0.0	123.3	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The M767A1 Electronic Time (ET) Fuze is a boosted version of the M762A1 Electronic Time (ET) Fuze. In tandem with the M762A1 Fuze, the M767A1 Fuze is currently being qualified by Bulova Technologies under a contract award to conduct a Materiel Change Program (MCP) on the basic M762 and M767 ET Fuze designs. Bulova is also under contract to deliver the initial M767A1 production quantity. The MCP improves producibility, upgrades the technology, provides a more robust design, and enhances the user interface. The M767A1 will retain the existing dual setting capability: (1) Hand set without need for any tool and (2) remote inductive setting for higher rates of fire. Inductive setting will support development testing of the 155mm Crusader Weapon system. The M767A1 will be available for use by the Crusader when fielded. The Fuze will also comply with Rationalization, Standardization and Interoperability (RSI) agreements for artillery weapon systems. The fuze utilizes a quartz crystal for its time base providing greater accuracy without increased cost. Because of the faster and easier setting methods, employment of the M767A1 Fuze will result in fewer errors over the current M767 Fuze as well as over the M582 Mechanical Time Super Quick (MTSQ) Fuze that it replaces. The M767A1 Fuze is also considerably more accurate than the MTSQ, especially over extended ranges. Since the M767A1 and the M762A1 Fuzes will be produced on the the same production line, the procurement of the M767A1 will accelerate the achievement of a unit cost reduction for the entire ET artillery fuze family. This item will be code A, approved for service use.

JUSTIFICATION:

The FY01 procurement continues to support testing, training and war reserve requirements of Improved Conventional Munitions (ICM). The M767A1 will replace the Mechanical Time fuzes which were phased out in FY 1990.

TC Standard: M767 September 1988; M767A1 December 1999

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: FUZE ARTY ELEC TIME M767 (E61200)			Weapon System Type:			Date: February 2000		
Cost Elements			FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AMMUNITION HARDWARE														
1. Load, Assemble, and Pack						202	26904	7.50	2574	257424	10.00	358	45940	7.80
2. Fuze Metal Parts - M767						2241	17256	129.89				4361		
3. Fuze Metal Parts - M767A1						1013	9648	105.00	25742	257424	100.00	38	45904	95.00
4. Box, Metal, M2A1						23	3500	6.70	203	32600	6.25		5900	6.37
SubTotal AMMO Hardware						3479			28519			4757		
Production Support Costs														
Production Engineering						161			1079			210		
Quality Assurance						60			420			90		
Acceptance Testing						150			1475			267		
Interim Transportation						7			56			9		
SubTotal Prod. Support						378			3030			576		
COST - Nonrecurring														
First Article Testing						100			200			10		
Product Improvement						21			41					
Energetics Explosives Components						989								
SubTotal COST-Nonrecurring						1110			241			10		
TOTAL						4967			31790			5343		

Exhibit P-5a, Budget Procurement History and Planning											
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				Weapon System Type:		P-1 Line Item Nomenclature: FUZE ARTY ELEC TIME M767 (E61200)					
WBS Cost Elements:		Contractor and Location		Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	
Fiscal Years										Data Revisn Avail	RFP Issue Date
M767											
1. Load, Assemble, and Pack		Bulova		C/FP	TACOM-ARDEC	Feb-99	Oct-99	17256	7.50	Yes	
FY99											
2. Fuze Metal Parts		Bulova		C/FP	TACOM-ARDEC	Feb-99	Sep-00	17256	129.89	Yes	
FY99											
M767A1											
1. Load, Assemble, and Pack		Bulova		C/FP	TACOM-ARDEC	Mar-00	Jun-01	9648	7.50	Yes	
FY99		Bulova		SS/FP	TACOM-ARDEC	Mar-00	Oct-01	263376	7.50	Yes	
FY00		Unknown		C/FP	TACOM-ARDEC	Apr-01	Oct-02	45904	7.80	Yes	
FY01											
2. Fuze Metal Parts		Bulova		C/FP	TACOM-ARDEC	May-99	Apr-01	9648	103.00	No	
FY99		Bulova		C/FP	TACOM-ARDEC	Mar-00	Jul-01	263376	100.00	No	
FY00		Unknown		C/FP	TACOM-ARDEC	Apr-01	Jul-02	45904	95.00	No	
FY01											
REMARKS: The work for Load, Assemble, and Pack, may be included within the Fuze Metal Parts Contract. It is anticipated that the FY00 M767A1 buy will be awarded sole source to Bulova Technologies who is currently under contract to conduct a Materiel Change Program to qualify the M767A1 for production.											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000				
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:			FUZE MULTI OPTION (ER8017)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:					
Program Elements for Code B Items:												Code:					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog					
Proc Qty				2	45	164	294	314	321	324		1464					
Gross Cost	0.0	0.0	0.0	1.5	14.0	45.6	52.8	53.4	53.5	53.4	0.0	274.3					
Less PY Adv Proc																	
Plus CY Adv Proc																	
Net Proc (P-1)	0.0	0.0	0.0	1.5	14.0	45.6	52.8	53.4	53.5	53.4	0.0	274.3					
Initial Spares																	
Total Proc Cost	0.0	0.0	0.0	1.5	14.0	45.6	52.8	53.4	53.5	53.4	0.0	274.3					
Flyaway U/C																	
Wpn Sys Proc U/C				751	310	278	180	170	167	165		187					
<p>DESCRIPTION: This budget line item supports procurement of the Multi Option Fuze for Artillery (MOFA). The MOFA is compatible with all current bulk-filled bursting field artillery ammunition fired in 105mm and 155mm cannon systems including M109A6 (Paladin), M198, XM777 Lightweight 155, and XM2001 Crusader. MOFA provides proximity, precision time, delay and impact functions in a single fuze. The inductive fuze set feature optimizes MOFA for use with automated ammunition handling equipment. MOFA combines proven subassemblies such as the safe and arm device with modern reserve batteries and Monolithic Millimeter/Microwave Integrated Circuit technology to affordably achieve enhanced performance, producibility and safety.</p> <p>JUSTIFICATION: Expeditious procurement of MOFA is essential to meet the Crusader field artillery system development schedule. This procurement will support Crusader testing, training and will begin establishing required war reserve stockpiles. The acquisition strategy for the FY00 and FY01 will be a 2-year multiyear production contract.</p> <p>ACQUISITION MANAGER: CRUSADER</p>																	

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: FUZE MULTI OPTION (ER8017)			Weapon System Type:		Date: February 2000	
Cost Elements			FY 98		FY 99		FY 00		FY 01			
ID	CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	TotalCost	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$000	\$
AMMUNITION HARDWARE												
		XM782 Complete Fuze		2	723		45	271		164	42750	261
		Comp PBX N-5 Explosives, lbs.)		5	49		2	35		8	290	35
		M2A1 Ammo Cans		2	8		6	7		21	160	8
SubTotal AMMO Hardware			1452			12320			43200			
Production Support Costs												
		Production Engineering		50							500	
		Quality Assurance									210	
		Acceptance Testing									1400	
		Interim Transportation									23	
SubTotal Prod. Support			50			631			2133			
COST - Nonrecurring												
		First Article Testing									300	
		Fielding										
SubTotal COST-Nonrecurring						1000			300			
TOTAL			1502			13951			45633			

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No:					Date: February 2000				
PROCUREMENT OF AMMUNITION / 1 / Ammunition					P-1 Line Item Nomenclature:				
WBS Cost Elements:					FUZE MULTI OPTION (ER8017)				
Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	RFP Issue Date
XM782 Complete Fuze FY 99 FY 00 FY 00 FY 01 FY 01	TBS	C/FFP	Picatinny Arsenal, NJ	Jun-00	Dec-01	2	723	yes	Feb 00
	TBS	CM-1/FP	Picatinny Arsenal, NJ	Jun-00	Dec-01	27	271	yes	Feb 00
	TBS	CM-1/FP	Picatinny Arsenal, NJ	Jun-00	Dec-01	18	271	yes	Feb 00
	TBS	CM-2/FP	Picatinny Arsenal, NJ	Jun-00	Dec-02	98	261	yes	Feb 00
	TBS	CM-2/FP	Picatinny Arsenal, NJ	Jun-00	Dec-02	66	261	yes	Feb 00
Comp PBX N-5 Explosives, lbs. FY 99 FY 00 FY 01	TBS	C/FFP	Rock Island, IL	Jun-00	Dec-00	0	49	no	
	TBS	C/FFP	Rock Island, IL	Jun-00	Dec-00	2	35	no	
	TBS	C/FFP	Rock Island, IL	Mar-01	Dec-01	8	35	no	
M2A1 Ammo Cans FY 99 FY 00 FY 01	TBS	C/FFP	Rock Island, IL	Mar-00	Dec-00	0	8	yes	
	TBS	C/FFP	Rock Island, IL	Mar-00	Dec-00	6	7	yes	
	TBS	C/FFP	Rock Island, IL	Mar-01	Dec-01	21	8	yes	
REMARKS: The FY 00 and FY 01 multiyear contract will be awarded as a 40/60 split among two fuze producers.									

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												FUZE ARTY ELEC TIME M762 (E76300)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	716					125	91	132	148	155		1367	
Gross Cost	68.7	0.0	0.0	0.0	0.0	16.0	11.2	15.7	17.3	9.2	0.0	138.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	68.7	0.0	0.0	0.0	0.0	16.0	11.2	15.7	17.3	9.2	0.0	138.1	
Initial Spares													
Total Proc Cost	68.7	0.0	0.0	0.0	0.0	16.0	11.2	15.7	17.3	9.2	0.0	138.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: The M762A2 Electronic Time (ET) Fuze is used with the 105mm and 155mm cargo carrying artillery projectiles. In tandem with the M767A1 Fuze, the M762A1 Fuze is currently being qualified by Bulova Technologies under a contract award to conduct a Materiel Change Program (MCP) on the basic M762 and M767ET Fuze designs. Bulova is also under contract to deliver the initial M767A1 production quantity. The MCP improves producibility, upgrades the technology, provides a more robust design, and enhances the user interface. The M762A1 will retain the existing dual setting capability: (1) Hand set without need for any tool, and (2) remote inductive setting for higher rates of fire. Inductive setting will support development testing of the 155mm Crusader Weapon system. The M762A1 will be available for use by the Crusader when fielded. In addition to the US requirements, the Fuze will also comply with Rationalization, Standardization and Interoperability (RSI) agreements for artillery weapon systems. The fuze utilizes a quartz crystal for its time base providing greater accuracy without increased cost. Because of the faster and easier setting methods, employment of the M762A1 Fuze will result in fewer setting errors over the current M762 Fuze as well as over the M577 Mechanical Time Super Quick (MTSQ) Fuze that it replaces. The M762A1 Fuze is also considerably more accurate than the MTSQ, especially over extended ranges. Since the M762A1 and the M767A1 Fuzes will be produced on the same production line, the procurement of the M762A1 will accelerate the achievement of a unit cost reduction for the entire ET artillery fuze family. This item will be code A, approved for service use.

JUSTIFICATION: The FY 01 procurement continues to support testing, training and war reserve requirements of the family of Improved Conventional Munitions (ICM).

TC Standard: M762 September 1988

Acquisition Manager: TACOM-ARDEC, Picatinny, NJ

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: FUZE ARTY ELEC TIME M762 (E76300)				Weapon System Type:		Date: February 2000	
ID	CD		FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Elements			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AMMUNITION HARDWARE														
1. Fuze, ET, M762A1												13973	147088	95.00
2. Box, Metal Box, M2A1												118	18500	6.37
SubTotal AMMO Hardware												14091		
Production Support Costs														
Production Engineering												570		
Quality Assurance												200		
Acceptance Testing												900		
Interim Transportation												40		
SubTotal Prod. Support												1710		
COST - Nonrecurring														
First Article Testing												200		
Government Furnished Material												28		
SubTotal COST-Nonrecurring												228		
TOTAL												16029		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition					FUZE ARTY ELEC TIME M762 (E76300)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
1. Fuze, ET, M762A1 FY01	Unknown	C/FP	TACOM-ARDEC	Mar-01	Sep-02	147088	95.00	No	Apr00	
2. Box, Metal, M2A1 FY01	Unknown	C/FP	TACOM-ARDEC	Mar-01	May-02	18500	6.37	No	Apr00	
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:											P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition											MINE, TRAINING, ALL TYPES (EA0800)	
Program Elements for Code B Items:											Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	45.7	1.9	0.0	1.1	8.0	3.9	5.7	0.0	0.0	0.0	0.0	66.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	45.7	1.9	0.0	1.1	8.0	3.9	5.7	0.0	0.0	0.0	0.0	66.3
Initial Spares												
Total Proc Cost	45.7	1.9	0.0	1.1	8.0	3.9	5.7	0.0	0.0	0.0	0.0	66.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
This budget lines includes Mines, Training, All Types (EA0800)

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: MINE, TRAINING, ALL TYPES (EA0800)				Weapon System Type:		Date: February 2000	
ID	CD	Cost Elements	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty				
			\$000	Each	\$000	\$	\$000	Each	\$	\$000	Each			\$
		MINE PRACTICE M88 (VOLCANO)					3794	6000		1534	235			
		WAM INDIVIDUAL TRAINER					1832	235		2358	10000			
		MODULAR CROWD CONTROL MUNITION			1114	3000	2377	10000						
TOTAL					1114					8003				3892

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: MINE AT M87 (VOLCANO) (E72195)				Weapon System Type:		Date: February 2000		
ID	cd	Cost Elements	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	UnitCost
			TotalCost	Qty	TotalCost	Qty	TotalCost	Qty	TotalCost	Qty				
			\$000	Each	\$	\$	\$000	Each	\$	\$	\$000	Each	\$	\$
		HARDWARE												
		LAP (M87A1)												
		Lone Star AAP, Texarkana, TX												
		MSEP Electronic Lens												
		Alliant Techsystems, Edina, MN												
		Coil & Strap Assembly												
		S&K Inc, Ronan, MT												
		Metal Parts Sets												
		AT S&A Assembly												
		Action Mfg, Philadelphia, PA												
		Miscellaneous												
		SUBTOTAL												
		PRODUCTION SUPPORT												
		PRODUCTION ENGINEERING												
		QUALITY ASSURANCE												
		LOT ACCEPTANCE TESTING												
		SUBTOTAL												
		TOTAL												

Exhibit P-5a, Budget Procurement History and Planning									
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition		MINE AT M87 (VOLCANO) (E72195)		Date: February 2000					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$	Specs Avail	Date RFP Issue
Fiscal Years						Each		Now?	Avail
LAP (M87A1) FY 99 FY 00	Day & Zimmerman (Lone Star AAP), Texarkana TX	SS/CPIF SS/CPIF	IOC IOC	May-99 Jun-00	Feb-02 Mar-02	3320 4000	786 823		
MSEP Electronic Lens FY 99 FY 00	Alliant Tech, Edina, MN Alliant Tech, Edina, MN	Option Option	ARDEC ARDEC	Apr-99 May-00	Apr-00 May-01	20769 24216	296 352		
Coil & Strap Assembly FY 99 FY 00	S&K Electronics Inc, Ronan MT S&K Electronics Inc, Ronan MT	SS/FP Option	ARDEC ARDEC	Jul-99 Aug-00	May-00 May-01	3931 4238	113 143		
Metal Parts Sets FY 99 FY 00	JTM Inc, Amarillo, TX TBS	Option C/FP	ARDEC ARDEC	Jul-99 Aug-00	Dec-99 May-01	3931 4238	140 244		
AT S&A Assembly FY 99 FY 00	Action Mfg, Philadelphia PA Action Mfg, Philadelphia PA	C/FP Option	IOC IOC	Sep-99 Aug-00	Mar-00 May-01	21172 25532	35 34		
REMARKS:									

Exhibit P-40, Budget Item Justification Sheet												Date: February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										
PROCUREMENT OF AMMUNITION / 1 / Ammunition		WIDE AREA MUNITIONS (E78100)										
Program Elements for Code B Items:		Code:	Other Related Program Elements:									
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	106	70	74	65	115	58	400	641	772	936	30753	33990
Gross Cost	14.6	10.0	14.7	9.5	15.2	7.3	29.2	44.6	56.3	56.1	1475.3	1732.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.6	10.0	14.7	9.5	15.2	7.3	29.2	44.6	56.3	56.1	1475.3	1732.9
Initial Spares												
Total Proc Cost	14.6	10.0	14.7	9.5	15.2	7.3	29.2	44.6	56.3	56.1	1475.3	1732.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
 The M93 Wide Area Munition is a first generation smart munition. It weighs 35 pounds and can be transported by a single soldier. It has the capability to recognize armor and heavy truck targets and to autonomously aim and launch its submunition to an effective radius of 100 meters. The M93 is designed for command control of the Arm/Destruct functions. The product improved WAM adds on-off-on and redeployability capabilities.

JUSTIFICATION:
 The M93 Wide Area Munition supports high mobility/offensive operations. Its design for flexible/rapid deployment combined with cost effective logistics and a self covering minefield capability provides increased performance and lethality over current mines in inventory. The FY01 procurements are required to build war reserve inventory in support of Department of Defense guidance.

WAM (Basic): Type Classification Date: June 1996-Low Rate Initial Production (LRIP)
 WAM (PIP-A1): Type Classification Date: December 2000 -Low Rate Initial Production (LRIP) (Proposed)
 WAM (PIP-A1): Type Classification Date: September 2002 - Standard (Proposed)
 WAM (PIP-A2): Type Classification Date: September 2003 - Standard (Proposed)

Acquisition Manager: Project Manager for Mines, Countermine and Demolition (PM-MCD)

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: WIDE AREA MUNITIONS (E78100)			Weapon System Type:		Date: February 2000			
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
HARDWARE														
		1. Load, Assemble and Pack - Wide Area Munition - Complete	8006	65	123169	14110	115	122696	6194	58	106793			
		2. Misc	52			53			50					
		SUBTOTAL	8058			14163			6244					
		Production Support Costs												
		Production Engineering	736			442			405					
		Quality Assurance	206			206			225					
		OGA Support	104			111			125					
		SUBTOTAL	1046			759			755					
		Non-Recurring Support												
		Producibility	375			200			220					
		Engineering Changes	65			69			65					
		SUBTOTAL	440			269			285					
		TOTAL	9544		146831	15191		132096	7284		125586			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				WIDE AREA MUNITIONS (E78100)						
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. Load, Assemble and Pack - Wide Area Munition FY 99 FY 00 FY 01	Textron Defense Systems Textron Defense Systems Textron Defense Systems Wilmington, MA	Mod Mod SS/FP	ARDEC ARDEC ARDEC	May-99 Feb-00 Dec-00	Mar-01 May-01 Sep-01	65 115 58	123169 122696 106793			
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												
Appropriation / Budget Activity/Serial No:				Date:				February 2000				
PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Item Nomenclature:				BUNKER DEFEATING MUNITION (BDM) (E88400)				
Program Elements for Code B Items:				Code:				Other Related Program Elements:				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	21.6	10.0	7.7	9.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	59.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	21.6	10.0	7.7	9.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	59.0
Initial Spares												
Total Proc Cost	21.6	10.0	7.7	9.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	59.0
Flyaway U/C												
Wpn Sys Proc U/C												

This budget lines includes Bunker Defeating Munitions, all types.

This budget lines includes Bunker Defeating Munitions, all types.

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: BUNKER DEFEATING MUNITION (BDM) (E88400)				Weapon System Type:		Date: February 2000	
ID		FY 98			FY 99			FY 00			FY 01				
		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost		
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000		
BUNKER DEFEATING MUNITION (TACTICAL)					9916	1076	7800.00	9808	1000	8190.00					
TOTAL					9916			9808							

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000						
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:			BUNKER DEFEATING MUNITION (TACTICAL) (E88401)				
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:							
Program Elements for Code B Items:												Code:	A						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog							
Proc Qty	3227	1242	943	1076	1000							7488							
Gross Cost	21.6	10.0	7.7	9.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	59.0							
Less PY Adv Proc																			
Plus CY Adv Proc																			
Net Proc (P-1)	21.6	10.0	7.7	9.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	59.0							
Initial Spares																			
Total Proc Cost	21.6	10.0	7.7	9.9	9.8	0.0	0.0	0.0	0.0	0.0	0.0	59.0							
Flyaway U/C																			
Wpn Sys Proc U/C																			

DESCRIPTION:
The Bunker Defeat Munition Shoulder-Launched Multi-purpose Assault Weapon - Disposable (SMAW-D) is a stand-alone, single shot, disposable munition which is used to defeat earth and timber field fortifications (bunkers). It also defeats light armored vehicles and breaches masonry walls. The need for the BDM SMAW-D was identified during operations Urgent Fury, Just Cause and Desert Shield/Storm. Other systems available (M136, AT4 and the M72 LAW) are ineffective against bunkers. The BDM is light-weight (15.7 lbs.), man-portable and air deployable. The BDM will be used by contingency forces. The item is Code A, approved for service use.

JUSTIFICATION:
Procurement supports contingency forces only.

Type Classified (TC) Generic August 1993, TC Limited Procurement September 1994, TC Standard December 1999.

Acquisition Manager: TACOM-ARDEC, Picatinny, NJ

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: BUNKER DEFEATING MUNITION (TACTICAL) (E88401)				Weapon System Type:		Date: February 2000			
ID	CD	Cost Elements	FY 98		FY 99		FY 00		FY 01		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty						
AMMUNITION HARDWARE																
	B	1. Complete Round 2. Field Handling System	8393	1076	7800.00	8190	1000	8190.00								
			228	47	4854.00	219	43	5096.00								
SubTotal AMMO Hardware			8621			8409										
Production Support Costs			705			795										
Production Engineering			107			121										
Quality Assurance			448			448										
Acceptance Testing			35			35										
Interim Transportation																
SubTotal Prod. Support			1295			1399										
TOTAL			9916			9808										

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition					BUNKER DEFEATING MUNITION (TACTICAL) (E88401)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
1. COMPLETE ROUND FY99 FY00	TALLEY, MESA, AZ TALLEY, MESA, AZ	Option Option	TACOM-ARDEC TACOM-ARDEC	Sep-99 Sep-00	Dec-00 Dec-01	1076 1000	7800.00 8190.00			
2. FIELD HANDLING SYSTEM FY99 FY00	TALLEY, MESA, AZ TALLEY, MESA, AZ	Option Option	TACOM-ARDEC TACOM-ARDEC	Sep-99 Sep-00	Dec-00 Dec-01	47 43	4854.00 5096.00			
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												ROCKET, HYDRA 70, ALL TYPES (E37300)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	783.3	27.3	36.4	122.8	143.6	152.8	135.2	137.1	139.5	139.4	1254.5	3071.9	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	783.3	27.3	36.4	122.8	143.6	152.8	135.2	137.1	139.5	139.4	1254.5	3071.9	
Initial Spares													
Total Proc Cost	783.3	27.3	36.4	122.8	143.6	152.8	135.2	137.1	139.5	139.4	1254.5	3071.9	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION:													
This budget line includes Rocket HYDRA 70 ALL TYPES													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: ROCKET, HYDRA 70, ALL TYPES (E37300)			Weapon System Type:			Date: February 2000		
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
		ROCKET HYDRA 70 MP5M PRAC M267				38077	39	976	36048	37	974	31466	31	1015
		ROCKET HYDRA 70 HE/PD M151/M423				12357	16	772	36540	49	746	35970	50	719
		ROCKET HYDRA 70 SIG PRAC M274				72356	160	452	71036	118	602	85331	144	593
TOTAL						122790			143624			152767		

Exhibit P-40, Budget Item Justification Sheet											Date:	February 2000
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition				ROCKET HYDRA 70 MPSM PRAC M267 (E37334)								
Program Elements for Code B Items:				Code:	Other Related Program Elements:							
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	250			39	37	31	31	32	32	31	279	762
Gross Cost	172.8	0.0	0.0	38.1	36.0	31.5	31.2	31.7	32.3	32.2	290.0	695.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	172.8	0.0	0.0	38.1	36.0	31.5	31.2	31.7	32.3	32.2	290.0	695.8
Initial Spares												
Total Proc Cost	172.8	0.0	0.0	38.1	36.0	31.5	31.2	31.7	32.3	32.2	290.0	695.8
Flyaway U/C												
Wpn Sys Proc U/C												
DESCRIPTION:												
<p>The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (Apache, Kiowa Warrior, and Cobra) against area targets such as personnel, air defense systems, and materiel. The M267 Multi-purpose Submunition (MPSM) practice round is identical in operation to the M261 tactical warhead except that it has three M75 practice submunitions, with a flash powder smoke signature, that takes the place of the nine M73 submunitions. Six inert submunitions are used to complete the weight and balance requirements. The M267 uses the M439 remote fuze, is mated to the MK66 Mod 4 rocket motor with electromagnetic radiation protection, and is required to train with the fire control and rocket management systems on the Cobra and Apache attack helicopters. This item is Code A, approved for service use.</p>												
JUSTIFICATION:												
<p>This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals. The M267 MPSM Practice round provides a cleaner, more effective rocket with which to train pilots.</p>												
TYPE CLASSIFICATION DATE: 1982												
ACQUISITION MANAGER: PM 2.75" Rocket Systems, Rock Island, Ill.												

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: ROCKET HYDRA 70 MPSM PRAC M287 (E37334)				Weapon System Type:		Date: February 2000					
ID	CD	FY 98				FY 99				FY 00				FY 01					
		TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost	TotalCost	TotalCost	Qty	UnitCost			
		\$000	x1000	\$	\$000	\$000	x1000	\$	\$000	\$000	x1000	\$	\$000	\$000	x1000	\$			
AMMUNITION HARDWARE Rocket																			
SubTotal AMMO Hardware																			
Production Support Costs Production Engineering																			
SubTotal Prod. Support																			
COST - Nonrecurring Product Improvement																			
SubTotal COST-Nonrecurring																			
TOTAL																			

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000										
Appropriation / Budget Activity/Serial No:			P-1 Line Item Nomenclature:																	
PROCUREMENT OF AMMUNITION / 1 / Ammunition			ROCKET HYDRA 70 MPSM PRAC M267 (E37334)																	
WBS Cost Elements:			Contract Method and Type		Location of PCO		Award Date		Date of First Delivery		QTY		Unit Cost		Specs Avail		Date Revisn Avail		RFP Issue Date	
Fiscal Years																				
FY99	COMPLETE ROUND		GDOS - Burlington, VT	C/FP	IOC		Jun-99	Mar-01	39	943	Y									Oct 98
FY00	COMPLETE ROUND		GDOS - Burlington, VT	SS/FP	IOC		Apr-00	Feb-02	37	922	Y									Oct 98
FY01	COMPLETE ROUND		GDOS - Burlington, VT	SS/FP	IOC		Apr-01	Feb-03	31	938	Y									Oct 98
REMARKS:																				

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No.												February 2000
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
ROCKET HYDRA 70 HEPD M151/M423 (E37335)												
Program Elements for Code B Items:												Other Related Program Elements:
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	211			16	49	50	33	33	33	33	297	755
Gross Cost	61.3	0.0	0.0	12.4	36.5	36.0	25.3	25.8	26.2	26.2	235.7	485.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	61.3	0.0	0.0	12.4	36.5	36.0	25.3	25.8	26.2	26.2	235.7	485.4
Initial Spares												
Total Proc Cost	61.3	0.0	0.0	12.4	36.5	36.0	25.3	25.8	26.2	26.2	235.7	485.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The HYDRA 70 Weapon System is a family of aerial rockets used by the Army aircraft (Apache, Kiowa Warrior, and Cobras) against area targets such as personnel, air defense systems, and materiel. The M151 HEPD is a unitary fragmenting 10 lb anti-personnel warhead with the M423 Point Detonating Fuze. The warhead consists of two main parts, the nose and the base, which is fabricated using nodular pearlitic malleable or ferritic malleable cast iron. The nose end of the warhead is threaded to receive the M423 fuze and is loaded with 2.3 lbs of Composition B4 explosive. The base section is fabricated from steel or cast iron and is threaded for attachment to the MK66 rocket motor. Upon detonation, the warhead fragments into thousands of small, high velocity fragments.

JUSTIFICATION:

This is a war reserve item and is also used for training. The FY01 procurement builds a war reserve inventory in accordance with the Army's procurement goals and supports annual peacetime training requirements.

TYPE CLASSIFICATION DATE:

26 February 1982

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: ROCKET HYDRA 70 HE/PD M151/M423 (E37335)				Weapon System Type:		Date: February 2000	
ID	CD	Cost Elements		FY 98			FY 99			FY 00			FY 01		
				TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
				\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE Rocket							11581	16	724	31193	49	637	31576	50	632
SubTotal AMMO Hardware							11581			31193			31576		
Production Support Costs Production Engineering							476			1757			1687		
SubTotal Prod. Support							476			1757			1687		
COST - Nonrecurring Product Improvement							300			3590			2707		
SubTotal COST-Nonrecurring							300			3590			2707		
TOTAL							12357		772	36540		746	35970		719

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		P-1 Line Item Nomenclature: ROCKET HYDRA 70 HE/PG M151/M423 (E37335)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revis Avail	RFP Issue Date
Fiscal Years										
FY99 COMPLETE ROUND	GDOS - Burlington VT	C/FP	IOC	Jun-99	Mar-01	16	724	Y		Oct 98
FY00 COMPLETE ROUND	GDOS - Burlington VT	SS/FP	IOC	Apr-00	Feb-02	49	637	Y		Oct 98
FY01 COMPLETE ROUND	GDOS - Burlington VT	SS/FP	IOC	Apr-01	Feb-03	50	632	Y		Oct 98
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:
Appropriation / Budget Activity/Serial No:												February 2000
PROCUREMENT OF AMMUNITION / 1 / Ammunition												P-1 Item Nomenclature:
ROCKET HYDRA 70 SIG PRAC M274 (E37337)												
Program Elements for Code B Items:												Other Related Program Elements:
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1155		64	160	118	144	132	134	134	130	1170	3341
Gross Cost	393.4	0.0	36.4	72.4	71.0	85.3	78.7	79.6	81.1	81.0	728.8	1707.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	393.4	0.0	36.4	72.4	71.0	85.3	78.7	79.6	81.1	81.0	728.8	1707.7
Initial Spares												
Total Proc Cost	393.4	0.0	36.4	72.4	71.0	85.3	78.7	79.6	81.1	81.0	728.8	1707.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:
The HYDRA 70 Weapon System is a family of aerial rockets used by Army aircraft (Apache, Kiowa Warrior, and Cobra) against area targets such as personnel, air defense systems, and materiel. The M274 warhead is a smoke/flash signature practice warhead used for pilot/gunner training missions and consists of a cast iron warhead modified with vent holes, an aluminum nose cap with firing pin, a M423 fuze safe and arming device, and a smoke/flash cartridge containing a mixture of potassium perchlorate and aluminum powder. The M274 with the new MK66 Mod 4 rocket motor with electromagnetic radiation protection can be fired by all aircraft. It is a key rocket due to its low cost, simple and reliable operation, day and night signature for scoring pilot proficiency, and non-hazardous dud feature which enables usage on new multipurpose range complexes. This item is Code A, approved for service use.

JUSTIFICATION:
This is a training unique item; not used in combat. Each pilot must fire live rockets to acquire and maintain attack helicopter gunnery skills. FY01 procurement supports all training schedules, initial qualification training for aviators, and builds a depot level in accordance with the Army's procurement goals. The M274 Signature Practice rocket is the preferred training munition at all ranges. The M274 Signature Practice rocket is safer to use, is cheaper, and has less of an environmental impact than high explosive rockets. At the same time, it allows peacetime training with rockets compatible with the new sterile, instrumented training ranges equipped with advanced sensors.

TYPE CLASSIFICATION DATE: 1986

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: ROCKET HYDRA 70 SIG PRAC M274 (E37337)				Weapon System Type:		Date: February 2000	
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE Rocket						61588	160	385	64289	118	545	77765	144	540
SubTotal AMMO Hardware						61588			64289			77765		
Production Support Costs Production Engineering						4879			4196			4609		
SubTotal Prod. Support						4879			4196			4609		
COST - Nonrecurring Product Improvement						5889			2551			2957		
SubTotal COST-Nonrecurring						5889			2551			2957		
TOTAL						72356		452	71036		602	85331		593

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				ROCKET HYDRA 70 SIG PRAC M274 (E37337)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
FY99 COMPLETE ROUND	GDOS - Burlington, VT	C/FP	IOC	Dec-98	Oct-99	160	385	Y		Oct 98
FY00 COMPLETE ROUND	GDOS - Burlington, VT	SS/FP	IOC	Apr-00	Feb-02	118	545	Y		Oct 98
FY01 COMPLETE ROUND	GDOS - Burlington, VT	SS/FP	IOC	Apr-01	Feb-03	144	540	Y		Oct 98
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000	
Appropriation / Budget Activity/Serial No:		P-1 Item Nonendurance:										DEMOLITION MUNITIONS, ALL TYPES (E55400)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition		Other Related Program Elements:												
Program Elements for Code B Items:		Code:	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty														
Gross Cost	311.0		16.6	10.9	11.6	11.2	16.6	17.9	18.9	34.2	24.5	0.0	473.4	
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	311.0		16.6	10.9	11.6	11.2	16.6	17.9	18.9	34.2	24.5	0.0	473.4	
Initial Spares														
Total Proc Cost	311.0		16.6	10.9	11.6	11.2	16.6	17.9	18.9	34.2	24.5	0.0	473.4	
Flyaway U/C														
Wpn Sys Proc U/C														

This budget line includes Demolition Munitions, All Types.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty					509	702	584	584				2379	
Gross Cost	0.0	0.0	0.0	0.0	5.6	6.5	5.0	5.0	0.0	0.0	0.0	22.1	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	0.0	0.0	0.0	0.0	5.6	6.5	5.0	5.0	0.0	0.0	0.0	22.1	
Initial Spares													
Total Proc Cost	0.0	0.0	0.0	0.0	5.6	6.5	5.0	5.0	0.0	0.0	0.0	22.1	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
The EX7 Mod1 Mine Clearing System, Anti-Personnel Obstacle Breaching System (APOBS) consists of a line charge assembly and a fuze/rocket motor assembly. This item is a lightweight self-contained, one-shot expendable system which is transported and deployed by a two-man team. APOBS uses the EX126 Mod 0 rocket motor to propel a line charge over the obstacle. It is employed in combat operations to breach a lane through wire and anti-personnel mine obstacles.

JUSTIFICATION:
The APOBS will replace the Bangalore Torpedo for breaching complex wire and anti-personnel landmine obstacles.

Type Classification Date: (Proposed) January 2000

Acquisition Manager: Project Manager for Mines, Countermine and Demolition (PM-MCD)

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)				Weapon System Type:		Date: February 2000	
Cost Elements			FY 98		FY 99		FY 00		FY 01					
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
HARDWARE														
1. APOBS Complete System						2635	279		9444	4901		4901	652	7517
2. APOBS Training Aid						2188	230		9513	421		421	50	8420
3. Initial Spares										321				
SUBTOTAL						4823				5643				
PRODUCTION SUPPORT						561				641				
PRODUCTION ENGINEERING						81				86				
QUALITY ASSURANCE						30				57				
LOT ACCEPTANCE TESTING						107				113				
TRAINING & MAINTENANCE														
SUBTOTAL						779				897				
TOTAL						5602	509		11006	6540		702		9316

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:			P-1 Line Item Nomenclature:					
PROCUREMENT OF AMMUNITION / 1 / Ammunition					ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)					
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
1. APOBS Complete System										
FY 00	Ensign-Bickford, Simsbury, CT	Option	Quantico, VA	Feb-00	Sep-01	279	9444	Yes		
FY 01	Ensign-Bickford, Simsbury, CT	Option	Quantico, VA	Dec-00	Jan-02	652	7517	Yes		
2. APOBS Training Aid										
FY 00	Ensign-Bickford, Simsbury, CT	Option	Quantico, VA	Feb-00	Jul-01	230	9513	Yes		
FY 01	Ensign-Bickford, Simsbury, CT	Option	Quantico, VA	Dec-00	Jan-02	50	8420	Yes		
3. Initial Spares										
	Ensign-Bickford, Simsbury	Option	Quantico, VA	Dec-00	Dec-01	1	321	Yes		
REMARKS: Initial spares quantity will be one lot. APOBS is an option on an existing Marine Corps contract.										

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE															P-1 Item Nomenclature: ANTI-PERS OBSTACLE BREACHING SYSTEM (E72800)															Date: February 2000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Exhibit P-40, Budget Item Justification Sheet										Date: February 2000		
Appropriation / Budget Activity/Serial No:				P-1 Item Nomenclature:						GRENADERS, ALL TYPES (E34000)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition				Other Related Program Elements:								
Program Elements for Code B Items:				Code:								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	568.0	4.2	12.1	20.7	13.3	20.3	21.8	17.4	20.3	19.3	0.0	717.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	568.0	4.2	12.1	20.7	13.3	20.3	21.8	17.4	20.3	19.3	0.0	717.4
Initial Spares												
Total Proc Cost	568.0	4.2	12.1	20.7	13.3	20.3	21.8	17.4	20.3	19.3	0.0	717.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

This budget line includes Grenades, all types

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: GRENADES, ALL TYPES (E34000)				Weapon System Type:		Date: February 2000	
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		FUZE GRENADE HAND PRAC M228				1931	788	2.45	5888	2530	2.33	4992	1923	2.60
		GRENADE HAND SMOKE GREEN M18				1892	40	32.89	79			1642	62	26.33
		GRENADE HAND SMOKE YELLOW M18				4515	130	30.79	998	34	29.69	2755	103	26.70
		GRENADE HAND SMOKE VIOLET M18				2961	73	33.93	86					
		GRENADE HAND SMOKE TNG M83				8183	207	38.13	247			2371	104	22.79
		GRENADE HAND FRAG DELAY M67										4184	162	25.78
		GRENADE SMOKE SCREENING TNG												
		GRENADE, LAUNCHER, SMK				1265	12		39			1958	27	72.52
		GRENADE, STUN							4198	27	92.63	2358	47	48.67
									1760	19				
					</									

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION/Ammunition												FUZE GRENADE HAND PRAC M228 (E31900)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty	78367			788	2530	1923	1936	1919	1919	1920		91302	
Gross Cost	76.1	0.0	0.0	1.9	5.9	5.0	5.1	5.1	5.2	5.3	0.0	109.6	
Less FY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	76.1	0.0	0.0	1.9	5.9	5.0	5.1	5.1	5.2	5.3	0.0	109.6	
Initial Spares													
Total Proc Cost	76.1	0.0	0.0	1.9	5.9	5.0	5.1	5.1	5.2	5.3	0.0	109.6	
Flyaway U/C													
Wpn Sys Proc U/C													
DESCRIPTION: <p>The M228 Fuze is a pyrotechnic delay-igniting fuze used with the M69 delay practice hand grenade. It is used by the individual soldier for training purposes. This item is Code A, approved for service use.</p>													
JUSTIFICATION: <p>This is a training unique item; not used in combat. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.</p>													
TYPE CLASSIFICATION DATE: <p>1971</p>													
ACQUISITION MANAGER: <p>IOC, Rock Island, Ill</p>													

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition				P-1 Line Item Nomenclature: FUZE GRENADE HAND PRAC M228 (E31900)				Weapon System Type:		Date: February 2000	
ID	CD		FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
Cost Elements														
AMMUNITION HARDWARE														
Complete Round						1725	788	2.19	5621	2530	2.22	4570	1923	2.38
SubTotal AMMO Hardware						1725			5621			4570		
Production Support Costs														
Production Engineering						171	35		185	82		356	66	
Industrial Stock Support														
SubTotal Prod. Support						206			267			422		
TOTAL						1931		2.45	5888		2.33	4992		2.60

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:						
PROCUREMENT OF AMMUNITION / 1 / Ammunition				FUZE GRENADE HAND PRAC M228 (E31900)						
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Complete Round										
FY 99	Martin Electronics Perry, FL	C/FP	IOC	Aug-99	May-00	788	2.19			Jun 99
FY 00	TBS	C/FP	IOC	Apr-00	May-01	2530	2.22	Y		Oct 99
FY 01	TBS	C/FP	IOC	Apr-01	May-02	1923	2.38	Y		Oct 00
REMARKS: TBS - To Be Selected										

Exhibit P-40, Budget Item Justification Sheet												Date: February 2000
Appropriation / Budget Activity/Serial No: PROCUREMENT OF AMMUNITION/1/Ammunition												P-1 Item Nomenclature: GRENADE HAND SMOKE TNG M83 (E69300)
Program Elements for Code B Items:												Other Related Program Elements:
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	348	122	225	207		104	213	215	207	206		1847
Gross Cost	11.6	4.2	6.7	8.2	0.2	2.4	5.0	5.1	5.0	5.1	0.0	53.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	11.6	4.2	6.7	8.2	0.2	2.4	5.0	5.1	5.0	5.1	0.0	53.5
Initial Spares												
Total Proc Cost	11.6	4.2	6.7	8.2	0.2	2.4	5.0	5.1	5.0	5.1	0.0	53.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The M83 hand grenade contains approximately 1 pound of environmentally acceptable smoke mixture. The smoke mixture is initiated by a pyrotechnic delay-igniting fuze. After ignition, there is a 3-second delay after which a dense smoke cloud is produced to conceal troop, vehicle, or other march movements. The M83 training grenade is deployed in a similar manner as the M8 series of service smoke grenades. It is used by the individual soldier in squad, company, and battalion units. This item is Code A, approved for service use.

JUSTIFICATION:

This is a training unique item; not used in combat. This grenade is urgently needed to replace the current M8 HC filled munition with a training safe version to reduce the hazard of troop exposure carcinogenic HC smoke. FY01 procurement supports annual peacetime training and builds a depot level in accordance with the Army's procurement goals.

TYPE CLASSIFICATION DATE:
1994

ACQUISITION MANAGER:
IOC, Rock Island, Ill

Exhibit P-5, Weapon Ammo Cost Analysis			Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 1 / Ammunition			P-1 Line Item Nomenclature: GRENADE HAND SMOKE TNG M83 (E69300)			Weapon System Type:		Date: February 2000			
ID	CD	Cost Elements	FY 98			FY 99			FY 00			FY 01		
			TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
			\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$	\$000	x1000	\$
AMMUNITION HARDWARE Complete Round						7414	207	35.73				2304	104	22.15
SubTotal AMMO Hardware						7414						2304		
Production Support Costs Production Engineering						621			247			34		
Industrial Stock Support						148						33		
SubTotal Prod. Support						769			247			67		
TOTAL						8183		38.13	247			2371		22.79

Exhibit P-5a, Budget Procurement History and Planning										Date: February 2000
Appropriation / Budget Activity/Serial No:		P-1 Line Item Nomenclature:								
PROCUREMENT OF AMMUNITION / 1 / Ammunition		GRENADE HAND SMOKE TNG M83 (E69300)								
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY x1000	Unit Cost \$	Specs Avail Now?	Date Revisn Avail	RFP Issue Date
Fiscal Years										
Complete Round	Pine Bluff Arsenal (PBA)	SS/FP	IOC	Apr-99	Apr-00	207	35.73			Feb 99
FY 99	Pine Bluff, AR									
FY 01	Pine Bluff Arsenal (PBA)	SS/FP	IOC	Apr-01	Apr-02	104	22.15	Yes		Oct 00
	Pine Bluff, AR									
REMARKS:										

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nonendowment:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												SIGNALS, ALL TYPES (E46900)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	325.3	1.3	7.4	5.1	9.7	13.1	11.6	12.4	14.5	13.0	0.0	413.4	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	325.3	1.3	7.4	5.1	9.7	13.1	11.6	12.4	14.5	13.0	0.0	413.4	
Initial Spares													
Total Proc Cost	325.3	1.3	7.4	5.1	9.7	13.1	11.6	12.4	14.5	13.0	0.0	413.4	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: This budget line includes Signals, ALL TYPES

Exhibit P-40, Budget Item Justification Sheet												Date: February 2000
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										
PROCUREMENT OF AMMUNITION / 1 / Ammunition		SMOKE POT PRACTICE M8 (E62900)										
Program Elements for Code B Items:		Code:	Other Related Program Elements:									
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	23		11		13	15	17	17	17	17		130
Gross Cost	9.1	0.0	5.1	0.0	5.8	7.2	6.9	6.9	7.1	7.2	0.0	55.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.1	0.0	5.1	0.0	5.8	7.2	6.9	6.9	7.1	7.2	0.0	55.2
Initial Spares												
Total Proc Cost	9.1	0.0	5.1	0.0	5.8	7.2	6.9	6.9	7.1	7.2	0.0	55.3
Flyaway U/C												
Wpn Sys Proc U/C												

The M8 Smoke Pot is a five-gallon metal pail containing about 25 pounds of environmentally acceptable smoke mixture. It is initiated by a pyrotechnic delay igniting fuze. After ignition, about a 25 second delay, a dense smoke cloud is produced for screening purposes to conceal troop, vehicle, or other march movements. It is deployed in a similar manner as the service smoke pots, M4 series and M5. It is used by the individual soldier in squad, company and battalion units. This item is code B, not approved for service use.

JUSTIFICATION: This training pot is urgently needed to replace the current M4A2 HC filled munition with a training munition with a reduced hazard for troops exposed during training.

Exhibit P-5a, Budget Procurement History and Planning										Date:	February 2000
Appropriation / Budget Activity/Serial No:		Weapon System Type:		P-1 Line Item Nomenclature:							
PROCUREMENT OF AMMUNITION / 1 / Ammunition				SMOKE POT PRACTICE M8 (E62900)							
WBS Cost Elements:	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY	Unit Cost \$000	Specs Avail	Date Revisn Avail	RFP Issue Date	
Fiscal Years						Each		Now?			
Load Assemble, and Pack											
FY 00	Pine Bluff Arsenal	SS/FP	CBDCOM	Jan-00	May-00	12536	140				
FY 01	Pine Bluff Arsenal	SS/FP	CBDCOM	Jan-00	May-02	15143	142				
Chemicals											
FY 00	Unknown	C/FP	Pine Bluff Arsenal	Jul-00	Oct-00	13058	140				
FY 01	Unknown	C/FP	Pine Bluff Arsenal	Jul-00	Oct-01	15774	142				
Metal Parts											
FY 00	Unknown	C/FP	Pine Bluff Arsenal	Jul-00	Oct-00	13058	130				
FY 01	Unknown	C/FP	Pine Bluff Arsenal	Jul-01	Oct-01	15774	132				
REMARKS:											

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000		
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		AMMO COMPONENTS, ALL TYPES (EB0016)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Code:		Other Related Program Elements:	
Program Elements for Code B Items:															
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty															
Gross Cost	761.1	1.2	3.1	3.7	6.8	6.8	6.8	6.9	7.0	7.2	0.0	810.6			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	761.1	1.2	3.1	3.7	6.8	6.8	6.8	6.9	7.0	7.2	0.0	810.6			
Initial Spares															
Total Proc Cost	761.1	1.2	3.1	3.7	6.8	6.8	6.8	6.9	7.0	7.2	0.0	810.6			
Flyaway U/C															
Wpn Sys Proc U/C															
DESCRIPTION:															
This budget line includes all ammo components/support items															

Exhibit P-5, Weapon Ammo Cost Analysis				Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION /Ammunition / 41500684				P-1 Line Item Nomenclature: AMMO COMPONENTS, ALL TYPES				Weapon System Type:		Date: February 2000	
		ID		FY 98		FY 99		FY 00		FY 01					
Cost Elements		CD		TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
				\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
COMPONENTS FOR RENOVATION OF FIELD STOCK							2713			5848			5788		
WEAPON COMP IN SPT OF PROOF/ACT TESING							999			973			962		
TOTAL							3712			6821			6750		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												COMPONENTS FOR RENOVATION OF FIELD STOCK (EA0500)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	500.0	0.1	3.0	2.7	5.8	5.8	5.9	5.9	6.0	6.1	0.0	541.3	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	500.0	0.1	3.0	2.7	5.8	5.8	5.9	5.9	6.0	6.1	0.0	541.3	
Initial Spares													
Total Proc Cost	500.0	0.1	3.0	2.7	5.8	5.8	5.9	5.9	6.0	6.1	0.0	541.3	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:

These components are used to support the renovation of ammunition items currently in the Army inventory. All components are centrally managed and procured by the Industrial Operations Command. Items support worldwide ammunition requirements in order to maintain the inventory in a serviceable status ready for issue to the troops.

JUSTIFICATION:

The components are required to bring stocks that are no longer in an issuable condition back to an issuable condition. The alternative is to fill requirements with new procurement. It is much more cost effective to correct most stockpile deficiencies through renovation than through new procurement.

ACQUISITION MANAGER: IOC, Rock Island, Ill.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000		
Appropriation / Budget Activity/Serial No:												P-1 Item Nonrenewable:		ITEMS LESS THAN \$5 MILLION (EA0055)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:			
Program Elements for Code B Items:												Code:			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty															
Gross Cost	763.4	2.6	6.0	6.4	7.6	10.1	8.7	8.7	6.0	6.1	0.0	825.8			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	763.4	2.6	6.0	6.4	7.6	10.1	8.7	8.7	6.0	6.1	0.0	825.8			
Initial Spares															
Total Proc Cost	763.4	2.6	6.0	6.4	7.6	10.1	8.7	8.7	6.0	6.1	0.0	825.8			
Flyaway U/C															
Wpn Sys Proc U/C															
DESCRIPTION:															
This budget line includes miscellaneous ammunition items under \$5 million.															

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomendature:	
PROCUREMENT OF AMMUNITION / 11 / Ammunition												AMMUNITION PECULIAR EQUIPMENT (EA0575)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	77.1	5.2	7.3	10.3	10.6	9.5	8.8	8.5	8.7	8.8	0.0	154.8	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	77.1	5.2	7.3	10.3	10.6	9.5	8.8	8.5	8.7	8.8	0.0	154.8	
Initial Spares													
Total Proc Cost	77.1	5.2	7.3	10.3	10.6	9.5	8.8	8.5	8.7	8.8	0.0	154.8	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION:
Ammunition Peculiar Equipment (APE) is unique, low density equipment items specifically designed, fabricated, tested, procured, and adopted for use in ammunition depot operations in conventional and chemical ammunition. These depot operations involve maintenance, demilitarization, preservation/packaging, and surveillance functions on the ammunition item. APE is not stocked nor is it available from commercial sources. This equipment is different from production line plant equipment in that it disassembles ammunition items into components, usually for the removal of a hazardous component. APE is also designed to perform cleaning and renovation functions on ammunition subjected to deterioration effects (rust, corrosion, weathering, etc) during its storage life. APE supporting surveillance is keyed to stockpile sampling and function tests of the items to assure readiness for combat or training. Demilitarization APE is similar somewhat to maintenance APE but must go further in disassembly to destroy hazardous components and reclaim salvageable parts or metals. APE is designed, developed, and fielded to support ammunition field service stocks that are currently on hand in the inventory control point and is used to restore these stocks to an issuance/serviceable condition.

JUSTIFICATION:
The APE and replacement parts must be on-hand to perform any of the ammunition depot operations for conventional and chemical ammunition. The ammunition depot operations cannot be accomplished if the required APE is not supplied in a timely manner. The equipment is loaded to worldwide locations for the accomplishment of depot type operations based on the ammunition requirements. The equipment described herein is required to support the following ammunition programs: Integrated Conventional Ammunition Maintenance Plan (ICAMP), surveillance program for lethal chemical agents and munition; equipment for worldwide maintenance lines; equipment to support the toxic chemical maintenance facilities; Prepositioned Ships; and also to support Government-owned, contractor-operated plants as Government furnished equipment (GFE) in support of ammunition depot operations at those locations.

APE is centrally managed by HQ IOC.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000		
Appropriation / Budget Activity/Serial No:												P-1 Item Nonrenewable:		FIRST DESTINATION TRANSPORTATION (AMMO) (EA0550)	
PROCUREMENT OF AMMUNITION / 1 / Ammunition												Other Related Program Elements:			
Program Elements for Code B Items:												Code:			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty															
Gross Cost	713.7	5.3	4.5	5.2	5.3	5.1	5.2	5.3	5.4	5.5	0.0	760.5			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	713.7	5.3	4.5	5.2	5.3	5.1	5.2	5.3	5.4	5.5	0.0	760.5			
Initial Spares															
Total Proc Cost	713.7	5.3	4.5	5.2	5.3	5.1	5.2	5.3	5.4	5.5	0.0	760.5			
Flyaway U/C															
Wpn Sys Proc U/C															
DESCRIPTION:															
<p>Transportation funds are required to support procurement and distribution of Army ammunition end items from manufacturing plants or assembly points, e.g., Army Ammunition Plants (AAP) to a CONUS depot, customer, other point of first acceptance into the Army supply system or to a port for transportation to a second destination; e.g., OCONUS customers. These funds directly support training and readiness requirements of soldiers in the field (CONUS and OCONUS) to include major OCONUS programs such as Europe and Korea training and prepositioned war reserve requirements and war reserve support to allies (Korea and Thailand).</p>															

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000				
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:			CLOSEOUT LIABILITIES (EA8500)		
PROCUREMENT OF AMMUNITION / 1 / Ammunition																	
Program Elements for Code B Items:												Code:			Other Related Program Elements:		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog					
Proc Qty																	
Gross Cost	0.0	0.0	0.0	125.2	0.0	5.8	25.3	0.0	0.0	0.0	0.0	156.3					
Less PY Adv Proc																	
Plus CY Adv Proc																	
Net Proc (P-1)	0.0	0.0	0.0	125.2	0.0	5.8	25.3	0.0	0.0	0.0	0.0	156.3					
Initial Spares																	
Total Proc Cost	0.0	0.0	0.0	125.2	0.0	5.8	25.3	0.0	0.0	0.0	0.0	156.3					
Flyaway U/C																	
Wpn Sys Proc U/C																	

DESCRIPTION: Funding will pay the increment of contract termination cost and operational losses to ensure the solvency of the Conventional Ammunition Working Capital Fund (CAWCF) as the fund closes out.

JUSTIFICATION: Funding is required to pay contract termination cost, i.e., unfunded pension liabilities, severance pay, and inventory and ammunition plants. Additionally, funds will be used to pay for losses in the CAWCF as it closes out.

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000															
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:																
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support												INDUSTRIAL FACILITIES (EP1200)																
Program Elements for Code B Items:												Other Related Program Elements:																
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog																
Proc Qty																												
Gross Cost	4685.7	47.1	32.9	45.3	52.9	47.7	66.5	71.5	72.8	74.2	0.0	5196.6																
Less PY Adv Proc																												
Plus CY Adv Proc																												
Net Proc (P-1)	4685.7	47.1	32.9	45.3	52.9	47.7	66.5	71.5	72.8	74.2	0.0	5196.6																
Initial Spares																												
Total Proc Cost	4685.7	47.1	32.9	45.3	52.9	47.7	66.5	71.5	72.8	74.2	0.0	5196.6																
Flyaway U/C																												
Wpn Sys Proc U/C																												
<p>DESCRIPTION: The Industrial Facilities (IF) budget request contains funding for correction of environmental deficiencies at existing facilities, design of future projects to meet peacetime or future requirements, replacement of obsolete or worn production equipment, and correction of infrastructure.</p>																												
<table border="0"> <tr> <td></td> <td><u>FY 99</u></td> <td><u>FY 00</u></td> <td><u>FY 01</u></td> </tr> <tr> <td>Environmental</td> <td>\$ 9.3</td> <td>\$ 9.1</td> <td>\$12.2</td> </tr> <tr> <td>Production Support</td> <td>\$36.0</td> <td>\$43.8</td> <td>\$35.5</td> </tr> <tr> <td>T O T A L</td> <td>\$45.3</td> <td>\$52.9</td> <td>\$47.7</td> </tr> </table>														<u>FY 99</u>	<u>FY 00</u>	<u>FY 01</u>	Environmental	\$ 9.3	\$ 9.1	\$12.2	Production Support	\$36.0	\$43.8	\$35.5	T O T A L	\$45.3	\$52.9	\$47.7
	<u>FY 99</u>	<u>FY 00</u>	<u>FY 01</u>																									
Environmental	\$ 9.3	\$ 9.1	\$12.2																									
Production Support	\$36.0	\$43.8	\$35.5																									
T O T A L	\$45.3	\$52.9	\$47.7																									
<p>JUSTIFICATION: Funds are used for the establishment, augmentation, and improvement of production capability for items procured under the ammunition appropriations. Funds also correct environmental problems which, if left unfunded, would result in costly fines and penalties against the Army.</p>																												

Exhibit P-40C Budget Item Justification Sheet					Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature		INDUSTRIAL FACILITIES (EP1200)		
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support						
Program Elements for Code B Items		Code	Other Related Program Elements			
LOCATION	PROJECT TITLE	PROJECT	FY 1999	FY 2000	FY 2001	
PRODUCTION SUPPORT						
HOLSTON ARMY	X-MAT Facility Initiatives	5XX1000	8419	18641	14069	
AMMUNITION PLANT (AAP)						
IOWA AAP	Replace Bridge H20, Rehabilitate Road C	5992776	2372			
IOWA AAP	Production Support and Equipment Replacement (PSR)	5XX5333	2111	2422	1394	
IOWA AAP	Replace Grade/Beams 3A, Yard L Docks	5002776		2886		
IOWA AAP	Install Steam Line to Line 3A from Main Heating Plant	5012998			3964	
IOWA AAP	Replace Water Main, Line 2	5993323	774			
IOWA AAP	Renovate Buildings 100-101, Phase 2	5003333		1317		
IOWA AAP	Install 5 Dry-Type Sprinklers, Yard L	5003334		759		
IOWA AAP	Refurbish Mathes Lake Dam	5003349		214		
IOWA AAP	Expand Melt Capacity, Line 3A	5013395			3000	
IOWA AAP	120MM Tank Line of the Future	5003403		5319		
LAKE CITY AAP	Commercial Pack	5993386	957			
LONE STAR AAP	Production Support and Equipment Replacement (PSR)	5XX5316	1175	1653	1239	
LONE STAR AAP	Consolidate Primer Production Area into Area P/Q	5003358		1006		
MILAN AAP	Production Support and Equipment Replacement (PSR)	5XX5317	1789	1811	1504	
RADFORD AAP	Production Support and Equipment Replacement (PSR)	5XX5326	3515	1747	2647	
RADFORD AAP	Overhead Electrical Service	59X2783	522			
RADFORD AAP	Replace Raw Water Supply Line, Buildings 408-409	5993322	2084			
RADFORD AAP	Replace Natural Gas Lines	5993314	2447			
RADFORD AAP	Replace Acid Tank AL-1, Acid Area	5013391			1187	
RADFORD AAP	Improvements for Multi-Base Production	5013402			3700	

Exhibit P-40C Budget Item Justification Sheet					Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature				
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support				INDUSTRIAL FACILITIES (EP1200)		
Program Elements for Code B Items		Code	Other Related Program Elements			
<u>LOCATION</u>	<u>PROJECT TITLE</u>	<u>PROJECT</u>	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	
<u>PRODUCTION SUPPORT (continued)</u>						
RIVERBANK AAP	Large Caliber Deep-Drawn Cartridge Cases	59X3311	3000	1871		
VARIOUS AAPs	Engineering Design	5XX3046	4986	2862	1598	
VARIOUS AAPs	Completion of Y2K, MRPII Implementation	5993387	592			
PROVING GROUND MODERNIZATION	Production Support and Equipment Replacement (PSR)	5XX5060	1200	1200	1200	
SUBTOTAL - PRODUCTION			35,943	43,818	35,502	
<u>ENVIRONMENTAL</u>						
HOLSTON AAP	Acid A Industrial Wastewater Equalization/Spill Ponds to Concrete Tanks	5992994	2227			
IOWA AAP	Hazardous Waste/Material Process Facility	5992952	1879			
IOWA AAP	Sewer Rehabilitation Continuation	5003371		1395		
IOWA AAP	Pink Water Treatment, 3A-05-2	5013344			1385	

Exhibit P-40C Budget Item Justification Sheet				Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature			
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support				INDUSTRIAL FACILITIES (EP1200)	
Program Elements for Code B Items		Code	Other Related Program Elements	FY 1999	FY 2000
LOCATION	PROJECT TITLE	PROJECT			
ENVIRONMENTAL (continued)					
LONE STAR AAP	Production Support and Equipment Replacement (PSR)	5XX5316		246	
LONE STAR AAP	Sanitary Sewer Collection System	5002955		1852	
MILAN AAP	Production Support and Equipment Replacement (PSR)	5XX5317	1116		1499
MILAN AAP	Upgrade Sewage Treatment Plant/Rehabilitate Main Sewage Treatment Collection Lines	5XX2943		4099	
MILAN AAP	Rehabilitate/Replace Sewage Collection System	5013384			1843
MILAN AAP	Boiler Conversion at K-Line	5013392			1567
RADFORD AAP	Dike Repairs	5012924			2489
RADFORD AAP	Acid Sewer System Upgrade	5012925			3463
RADFORD AAP	Correct Defects in Equalization Tanks	5993313	4111		
SCRANTON AAP	Upgrade Plant Drainage System	5002986		1500	
SUBTOTAL - ENVIRONMENTAL			9,333	9,092	12,246
TOTAL INDUSTRIAL FACILITIES			45,276	52,910	47,748

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE																																																																												
2. PROJECT TITLE/TYPE										February 2000																																																																												
Explosive Manufacturing Alternatives Team (XMAT) Facility Initiatives										Research Department Explosive (RDX)/High Melt Explosive (HMX)																																																																												
3. END ITEM SUPPORTED MODEL										6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)																																																																												
4. PROJECT NUMBER										Not Applicable																																																																												
5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)										Not Applicable																																																																												
H. FACILITY																																																																																						
1. NAME										Holston Army Ammunition Plant																																																																												
2. LOCATION										Kingsport, Tennessee																																																																												
3. TYPE (GOGO, GOCO, COCO)										GOCO																																																																												
I. RELATED PROJECTS																																																																																						
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NARRATIVE EXPLANATION																																																																																						
This project provides funding for the operational costs at Holston AAP. Operational costs include all property management costs such as maintenance, facilitization, environmental, safety, security, traffic management, readiness/reactivation/replenishment planning, and support of the on-site Government staff.																																																																																						

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE	
2. PROJECT TITLE/TYPE										February 2000	
3. END ITEM SUPPORTED MODEL											
4. PROJECT NUMBER										Propellants and Explosives (Nitroglycerin and Nitrocellulose)	
5. ANNUAL CAPACITY BEFORE PROJECT (1-3-5)										6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	
Not Applicable										Not Applicable	
H. FACILITY											
1. NAME										Radford Army Ammunition Plant	
2. LOCATION										Radford, Virginia	
3. TYPE (GOGO, GOCO, COCO)										GOCO	
I. RELATED PROJECTS											
Project Number		Title		FY & Appn		Value (\$ mil)		Facing		Start Date	
2924		Dike Replacement, Phase 2		FY 03		4,325		No		Mar-03	
2300											
51											
138											
2489											
J. PRINCIPAL MILESTONES											
1. CONCEPT DESIGN COMPLETE											
2. FINAL DESIGN COMPLETE											
3. INITIAL/FINAL PROJECT AWARD											
4. CONSTRUCTION COMPLETE											
5. EQUIPMENT INSTALLATION COMPLETE											
6. PROVE OUT BEGINS											
7. PROVE OUT COMPLETE											
MONTH & YEAR											
Not Applicable											
Nov-99											
Mar-01/Mar-01											
Sep-02											
Not Applicable											
Not Applicable											
Not Applicable											
NARRATIVE EXPLANATION											
This project will provide secondary containment at storage tanks in active facilities to prevent releases of fuel, used oil and other petroleum products, corrosives, solvents, and other hazardous materials to the environment. This includes provisions of dikes at storage tanks where none exist and rehabilitation of dike structures.											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 2000	
2. PROJECT TITLE/TYPE Environmental - Acid Sewer System Upgrade		3. END ITEM SUPPORTED MODEL Propellants and Explosives (Nitroglycerin and Nitrocellulose)									
4. PROJECT NUMBER 5012925		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable								6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	
ELEMENT OF COST		FY 98		FY 99		FY 00		FY 01		H. FACILITY 1. NAME Radford Army Ammunition Plant 2. LOCATION Radford, Virginia 3. TYPE (GOGO, GOCO, COCO) GOCO	
A. CONSTRUCTION COST								3168			
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST											
C. EQUIPMENT INSTALLATION COST											
D. CONTRACTOR SUPPORT COST											
E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST											
TOTAL FACILITY PROJECT COST											
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
I. RELATED PROJECTS											
Project Number		Title		FY & Appn		Value (\$ mil)		Facing		Start Date	
Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
J. PRINCIPAL MILESTONES											
1. CONCEPT DESIGN COMPLETE										MONTH & YEAR Aug-98	
2. FINAL DESIGN COMPLETE										Nov-99	
3. INITIAL/FINAL PROJECT AWARD										Feb-01/Feb-01	
4. CONSTRUCTION COMPLETE										Dec-02	
5. EQUIPMENT INSTALLATION COMPLETE										Not Applicable	
6. PROVE OUT BEGINS										Not Applicable	
7. PROVE OUT COMPLETE										Not Applicable	
K. NARRATIVE EXPLANATION											
This effort is to provide for remediation of the acid sewer system. The primary means of rehabilitation will be line replacement or line reconstruction without excavation using cured in-place resin. This will include the excavation and disposal of contaminated soil or other wastes. The acid and Nitrocellulose sewer mains to the waste acid area neutralization plants are in poor condition. To prevent groundwater contamination, these sewer systems must be upgraded and replaced. Remediation will be conducted to ensure the environment is protected and that Radford Army Ammunition Plant is in environmental compliance.											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 2000	
2. PROJECT TITLE/TYPE Rehabilitate Main Sewage Treatment Collection Lines		3. END ITEM SUPPORTED MODEL Medium Caliber, Mortar, Fuze, and Mines									
4. PROJECT NUMBER 5012943		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable								6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	
ELEMENT OF COST		FY 98		FY 99		FY 00		FY 01		H. FACILITY 1. NAME Milan Army Ammunition Plant 2. LOCATION Milan, Tennessee 3. TYPE (GOGO, GOCO, COCO) GOCO	
A. CONSTRUCTION COST						3788		1504			
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST						84 227		75			
C. EQUIPMENT INSTALLATION COST											
D. CONTRACTOR SUPPORT COST											
E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST											
TOTAL FACILITY PROJECT COST						4099		1579			
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
I. RELATED PROJECTS											
Project Number		Title		FY & Appn		Value (\$ mil)		Facing		Start Date	
2943A		ENV - Upgrade Sewage Treatment Plant		FY00		4,099		No		Mar-00	
3384		ENV - Rehabilitate/Replace Sewage Collection System		FY01		1,843		No		Jan-01	
										Aug-04	
J. PRINCIPAL MILESTONES											
MONTH & YEAR											
1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE											
Apr-96 Feb-99 Jan-01/Jan-01 Dec-01 Not Applicable Not Applicable Not Applicable											
NARRATIVE EXPLANATION											
Project involves rehabilitation or replacement of the existing sewage collection system. Rehabilitation of existing sewage system consists of rehabilitation or replacement of manhole and sewer collection lines to reduce inflow and infiltration. The existing sewage collection lines were installed in the early 1940s. Because of age, it has frequent breaks, causing heavy maintenance. During heavy rains, the plant has experienced infiltration in excess of 5 times the normal flow. This sudden surge in flow causes the treatment facility to be overstressed and has resulted in violations of Milan Army Ammunition Plant's discharge permit.											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 2000	
2. PROJECT TITLE/TYPE Install Steam Line to Line 3A		3. END ITEM SUPPORTED MODEL 155mm/M795, 81mm Mortars									
4. PROJECT NUMBER 5012988		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable					
ELEMENT OF COST		FY 98		FY 99		FY 00		FY 01		H. FACILITY 1. NAME Iowa Army Ammunition Plant 2. LOCATION Middletown, Iowa 3. TYPE (GOGO, GOCO, COCO) GOCO	
A. CONSTRUCTION COST								3662			
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST								83			
C. EQUIPMENT INSTALLATION COST								219			
D. CONTRACTOR SUPPORT COST											
E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST											
TOTAL FACILITY PROJECT COST								3964			
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
I. RELATED PROJECTS											
Project Number		Title		FY & Appn		Value (\$ mil)		Facing		Start Date	
Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
J. PRINCIPAL MILESTONES											
1. CONCEPT DESIGN COMPLETE										MONTH & YEAR May-98	
2. FINAL DESIGN COMPLETE										Mar-00	
3. INITIAL/FINAL PROJECT AWARD										Dec-00/Dec-00	
4. CONSTRUCTION COMPLETE										Oct-01	
5. EQUIPMENT INSTALLATION COMPLETE										Not Applicable	
6. PROVE OUT BEGINS										Not Applicable	
7. PROVE OUT COMPLETE										Not Applicable	
NARRATIVE EXPLANATION											
This project will install a steam line from the Main Heating Plant to Line 3A, thereby eliminating the need for the 3A-02 Heating Plant. This project will eliminate considerable Oxide of Sulfur (SOX) and Oxide of Nitrogen (NOX) emissions from the facility. This project also allows for the removal of a fuel oil tank, which has a potential for spills and/or leaks.											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 2000	
2. PROJECT TITLE/TYPE Preparation of Equipment and Construction Design		3. END ITEM SUPPORTED MODEL Multiple									
4. PROJECT NUMBER 5XX3046		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable			6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable						
ELEMENT OF COST		FY 98		FY 99		FY 00		FY 01		H. FACILITY 1. NAME Multiple 2. LOCATION Multiple 3. TYPE (GOGO, GOCO, COCO) Multiple	
A. CONSTRUCTION COST											
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST											
C. EQUIPMENT INSTALLATION COST											
D. CONTRACTOR SUPPORT COST											
E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST											
TOTAL FACILITY PROJECT COST											
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
I. RELATED PROJECTS											
Project Number		Title		FY & Appn		Value (\$ mil)		Facing		Start Date Compl Date	
Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
J. PRINCIPAL MILESTONES		1. CONCEPT DESIGN COMPLETE		2. FINAL DESIGN COMPLETE		3. INITIAL/FINAL PROJECT AWARD		4. CONSTRUCTION COMPLETE		5. EQUIPMENT INSTALLATION COMPLETE	
257		1341		1657		1095		2752		1598	
1598		4986		1759		3227		1095		1341	
2752		4986		1759		3227		1095		1341	
MONTH & YEAR		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
1. CONCEPT DESIGN COMPLETE		2. FINAL DESIGN COMPLETE		3. INITIAL/FINAL PROJECT AWARD		4. CONSTRUCTION COMPLETE		5. EQUIPMENT INSTALLATION COMPLETE		6. PROVE OUT BEGINS	
2. PROVE OUT COMPLETE		3. PROVE OUT BEGINS		4. EQUIPMENT INSTALLATION COMPLETE		5. CONSTRUCTION COMPLETE		6. FINAL DESIGN COMPLETE		7. CONCEPT DESIGN COMPLETE	
NARRATIVE EXPLANATION		This project will provide the annual funding increment for the Industrial Facilities (IF) Program. These funds are used for the initiation and/or continuation of construction design criteria, equipment and construction concept and final design, process design specifications, procurement packages, design reviews, design related analyses, preparation and incorporation of engineering change proposals (ECPs), preparation of environmental evaluation to determine if a categorical exclusion to the requirement for an environmental assessment (EA) can be made, and other design related efforts allowable under existing regulations deemed necessary to assure efficient and timely execution of facility projects.									

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 2000	
2. PROJECT TITLE/TYPE Pink Water Treatment, 3A-05-2		3. END ITEM SUPPORTED MODEL 155mm Artillery, 81mm Mortar									
4. PROJECT NUMBER 5013344		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable								6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	
ELEMENT OF COST		FY 98		FY 99		FY 00		FY 01		H. FACILITY 1. NAME Iowa Army Ammunition Plant 2. LOCATION Middletown, Iowa 3. TYPE (GOGO, GOCO, COCO) GOCO	
A. CONSTRUCTION COST											
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)											
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST											
C. EQUIPMENT INSTALLATION COST											
D. CONTRACTOR SUPPORT COST											
E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST											
TOTAL FACILITY PROJECT COST											
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
NARRATIVE EXPLANATION											
The project turns the Pink Water Treatment Unit at Building 3A-05-2 into a closed-loop, zero discharge system. Pink Water treatment units currently discharge explosives in excess of lifetime advisories set forth in the Safe Drinking Water Act. Discharge is believed to be the cause of off-site contamination of private drinking water wells located south of the plant. This is required for wastewater treatment and to keep Iowa in compliance in order to meet replenishment needs.											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE
2. PROJECT TITLE/TYPE Rehabilitate/Replacement of Sewage Collection System		3. END ITEM SUPPORTED MODEL Medium Caliber, Mortar, Fuze, and Mines								February 2000
4. PROJECT NUMBER 5013384		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable								6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable
ELEMENT OF COST		FY 98		FY 99		FY 00		FY 01		H. FACILITY 1. NAME Milan Army Ammunition Plant Milan, Tennessee 2. LOCATION GOCO 3. TYPE (GOCO, GOCO, COCO)
A. CONSTRUCTION COST		1755								
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)										
1.										
2.										
3.										
SUBTOTAL EQUIPMENT COST		88								
C. EQUIPMENT INSTALLATION COST										
D. CONTRACTOR SUPPORT COST										
E. CORPS OF ENGINEERS SUPPORT COST										
F. OTHER IN-HOUSE SUPPORT COST										
TOTAL FACILITY PROJECT COST		1843								
G. OTHER COSTS										
1. FACILITY PROVE-OUT COST										
2. MILITARY CONSTRUCTION APPN.										
NARRATIVE EXPLANATION		<p>This project will rehabilitate existing sewage collection lines and manholes within active production areas. The existing lines are experiencing infiltration at a rate approaching five times the normal flow. The excessive flow requires treatment and thus places additional burden on the sewage treatment facility. The additional burden upsets the treatment process which results in National Pollutant Discharge Elimination System (NPDES) violations.</p>								

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 2000	
2. PROJECT TITLE/TYPE			3. END ITEM SUPPORTED MODEL				5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)				
Replace Acid Tank AL-1, Acid Area							Propellants and Explosives (Nitroglycerin and Nitrocellulose)				
4. PROJECT NUMBER			5. ANNUAL CAPACITY AFTER PROJECT (1-8-5)				6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)				
5013391			Not Applicable				Not Applicable				
ELEMENT OF COST			FY 98	FY 99	FY 00	FY 01	H. FACILITY				
						1074	1. NAME Radford Army Ammunition Plant				
							2. LOCATION Radford, Virginia				
							3. TYPE (GOGO, GOCO, COCO) GOCO				
I. RELATED PROJECTS											
Project Number			Title			FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date	
			Not Applicable								
48											
65											
J. PRINCIPAL MILESTONES										MONTH & YEAR	
1. CONCEPT DESIGN COMPLETE										Not Applicable	
2. FINAL DESIGN COMPLETE										Not Applicable	
3. INITIAL/FINAL PROJECT AWARD										Jan-01/Jul-01	
4. CONSTRUCTION COMPLETE										Oct-02	
5. EQUIPMENT INSTALLATION COMPLETE										Not Applicable	
6. PROVE OUT BEGINS										Not Applicable	
7. PROVE OUT COMPLETE										Not Applicable	
K. NARRATIVE EXPLANATION											
This project will replace one aluminum acid storage tank with two aluminum tanks. The associated piping and support structures will also be replaced. The existing tank is over 25 years old and is badly deteriorated, showing severe pitting. Metal thickness measurements indicate the tank has lost 30-50 percent of its original thickness. The combined capacity of the two new tanks will be less than that of the existing tank (1.3 million gallons versus 1.8 million gallons).											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE
2. PROJECT TITLE/TYPE										February 2000
3. END ITEM SUPPORTED MODEL										
4. PROJECT NUMBER										
5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)										
6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)										
7. END ITEM SUPPORTED MODEL										
8. FACILITY										
9. NAME										
10. LOCATION										
11. TYPE (GOGO, GOCO, COCO)										
12. RELATED PROJECTS										
13. PROJECT NUMBER										
14. TITLE										
15. VALUE (\$ mil)										
16. FY & APPN										
17. START DATE										
18. COMPL DATE										
19. MONTH & YEAR										
20. PRINCIPAL MILESTONES										
21. CONCEPT DESIGN COMPLETE										
22. FINAL DESIGN COMPLETE										
23. INITIAL/FINAL PROJECT AWARD										
24. CONSTRUCTION COMPLETE										
25. EQUIPMENT INSTALLATION COMPLETE										
26. PROVE OUT BEGINS										
27. PROVE OUT COMPLETE										
28. NARRATIVE EXPLANATION										
Boiler Conversion at K Line										
5013392										
ELEMENT OF COST										
FY 98										
FY 99										
FY 00										
FY 01										
A. CONSTRUCTION COST										788
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)										756
1.										
2.										
3.										
SUBTOTAL EQUIPMENT COST										756
C. EQUIPMENT INSTALLATION COST										
D. CONTRACTOR SUPPORT COST										
E. CORPS OF ENGINEERS SUPPORT COST										
F. OTHER IN-HOUSE SUPPORT COST										23
TOTAL FACILITY PROJECT COST										1567
G. OTHER COSTS										
1. FACILITY PROVE-OUT COST										
2. MILITARY CONSTRUCTION APPN.										
NARRATIVE EXPLANATION										
This project will eliminate the use of coal-fired boilers at Milan Army Ammunition Plant. This effort includes construction of a pre-fabricated building, installation of a natural gas line, purchase of two gas-fired boilers, and elimination of a storm water discharge point. Additionally, boiler operator personnel as well as annual boiler maintenance will be reduced. This project will realize a Benefit to Investment Ratio of 5.6.										

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 2000	
2. PROJECT TITLE/TYPE Expand Melt Capacity, Line 3A		3. END ITEM SUPPORTED MODEL 155mm M107, 155mm M795, 81mm Mortar									
4. PROJECT NUMBER 5013395		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable								6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	
ELEMENT OF COST		FY 98		FY 99		FY 00		FY 01		H. FACILITY 1. NAME Iowa Army Ammunition Plant 2. LOCATION Middletown, Iowa 3. TYPE (GOGO, GOCO, COCO) GOCO	
A. CONSTRUCTION COST								548			
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)								1928			
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST								1928			
C. EQUIPMENT INSTALLATION COST								411			
D. CONTRACTOR SUPPORT COST								33			
E. CORPS OF ENGINEERS SUPPORT COST								34			
F. OTHER IN-HOUSE SUPPORT COST								46			
TOTAL FACILITY PROJECT COST								3000			
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
I. RELATED PROJECTS											
Project Number		Title		FY & Appn		Value (\$ mil)		Facing		Start Date	
Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
J. PRINCIPAL MILESTONES											
MONTH & YEAR											
1. CONCEPT DESIGN COMPLETE											
2. FINAL DESIGN COMPLETE											
3. INITIAL/FINAL PROJECT AWARD											
4. CONSTRUCTION COMPLETE											
5. EQUIPMENT INSTALLATION COMPLETE											
6. PROVE OUT BEGINS											
7. PROVE OUT COMPLETE											
K. MONTH & YEAR											
May-00											
Nov-00											
Dec-01/Jan-02											
Jan-03											
Jan-03											
Not Applicable											
Not Applicable											
NARRATIVE EXPLANATION											
This project will construct a 5,000 square foot addition to Building 3A-05-1. Effort also provides for the purchase and installation of 12 climate controlled cooling ovens in the new building and the purchase and installation of one conditioning oven in Yard F. This project will increase production capacity of the 155mm M107 and M795 projectiles from 540 to 720 rounds per shift.											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 2000																							
2. PROJECT TITLE/TYPE Improvements for Multi-Base Production ¹		3. END ITEM SUPPORTED MODEL								Propellants and Explosives (Nitroglycerin and Nitrocellulose)																							
4. PROJECT NUMBER 5013402		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable								6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable																							
ELEMENT OF COST		FY 98		FY 99		FY 00		FY 01		H. FACILITY 1. NAME Radford Army Ammunition Plant 2. LOCATION Radford, Virginia 3. TYPE (GOGO, GOCO, COCO) GOCO																							
A. CONSTRUCTION COST								3524																									
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)																																	
1.																																	
2.																																	
3.																																	
SUBTOTAL EQUIPMENT COST								176																									
C. EQUIPMENT INSTALLATION COST																																	
D. CONTRACTOR SUPPORT COST																																	
E. CORPS OF ENGINEERS SUPPORT COST																																	
F. OTHER IN-HOUSE SUPPORT COST																																	
TOTAL FACILITY PROJECT COST										3700																							
G. OTHER COSTS																																	
1. FACILITY PROVE-OUT COST																																	
2. MILITARY CONSTRUCTION APPN.																																	
NARRATIVE EXPLANATION		<p>This project supports Modular Artillery Charge System (MACS) multi-base propellant requirements. This design/build project will reduce direct labor and scrap rate and increase product quality. This effort will automate Program Logic Controls (PLC) for the solvent delivery mix house, add PLC ram rate controls and temperature controlled dies to C2 press, install 4 Beken mixers and automate PLCs for process water, implement a near die face cutter with take-away conveyor, and integrate squeeze flow Rheometer into the MACS mix house. Additionally, this project enhances operator safety. Return on Investment (ROI) is .65 to 3.1 years.</p>																															
		<p>I. RELATED PROJECTS</p> <table border="1"> <thead> <tr> <th>Project Number</th> <th>Title</th> <th>FY & Appn</th> <th>Value (\$ mil)</th> <th>Facing</th> <th>Start Date</th> <th>Compl Date</th> </tr> </thead> <tbody> <tr> <td></td> <td>Not Applicable</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>J. PRINCIPAL MILESTONES</p> <table border="1"> <thead> <tr> <th>MONTH & YEAR</th> </tr> </thead> <tbody> <tr> <td>1. CONCEPT DESIGN COMPLETE</td> </tr> <tr> <td>2. FINAL DESIGN COMPLETE</td> </tr> <tr> <td>3. INITIAL/FINAL PROJECT AWARD</td> </tr> <tr> <td>4. CONSTRUCTION COMPLETE</td> </tr> <tr> <td>5. EQUIPMENT INSTALLATION COMPLETE</td> </tr> <tr> <td>6. PROVE OUT BEGINS</td> </tr> <tr> <td>7. PROVE OUT COMPLETE</td> </tr> </tbody> </table>										Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date		Not Applicable						MONTH & YEAR	1. CONCEPT DESIGN COMPLETE	2. FINAL DESIGN COMPLETE	3. INITIAL/FINAL PROJECT AWARD	4. CONSTRUCTION COMPLETE	5. EQUIPMENT INSTALLATION COMPLETE	6. PROVE OUT BEGINS	7. PROVE OUT COMPLETE
Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date																											
	Not Applicable																																
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4. CONSTRUCTION COMPLETE																																	
5. EQUIPMENT INSTALLATION COMPLETE																																	
6. PROVE OUT BEGINS																																	
7. PROVE OUT COMPLETE																																	

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)						1. DATE																						
2. PROJECT TITLE/TYPE Support of Ammunition Production Testing		3. END ITEM SUPPORTED MODEL		Initial Production Acceptance and Product Improvement for Various Ammunition Items																								
4. PROJECT NUMBER 0015060		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)		6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)																								
ELEMENT OF COST		FY 98	FY 99	FY 00	FY 01	H. FACILITY 1. NAME Yuma Proving Ground & Aberdeen Test Center 2. LOCATION Yuma, AZ and Aberdeen Proving Ground, MD 3. TYPE (GOGO, GOCO, COCO) GOGO																						
A. CONSTRUCTION COST					1200																							
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)					1200																							
1.																												
2.																												
3.																												
SUBTOTAL EQUIPMENT COST																												
C. EQUIPMENT INSTALLATION COST																												
D. CONTRACTOR SUPPORT COST																												
E. CORPS OF ENGINEERS SUPPORT COST																												
F. OTHER IN-HOUSE SUPPORT COST																												
TOTAL FACILITY PROJECT COST																												
G. OTHER COSTS																												
1. FACILITY PROVE-OUT COST																												
2. MILITARY CONSTRUCTION APPN.																												
NARRATIVE EXPLANATION		<p>Yuma Proving Ground and Aberdeen Test Center (ATC) perform and report results of production acceptance test for various ammunition end items. The funds at Yuma will be used to support mobile ballistic van modernization, automate geodetic systems and ballistic measurement mobile strain systems. At ATC funds will be used for platform refrigeration packages.</p>																										
		<p>I. RELATED PROJECTS</p> <table border="1"> <thead> <tr> <th>Project Number</th> <th>Title</th> <th>FY & Appn</th> <th>Value (\$ mil)</th> <th>Facing</th> <th>Start Date</th> <th>Compl Date</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>J. PRINCIPAL MILESTONES</p> <table border="1"> <thead> <tr> <th>MONTH & YEAR</th> </tr> </thead> <tbody> <tr> <td>1. CONCEPT DESIGN COMPLETE</td> </tr> <tr> <td>2. FINAL DESIGN COMPLETE</td> </tr> <tr> <td>3. INITIAL/FINAL PROJECT AWARD</td> </tr> <tr> <td>4. CONSTRUCTION COMPLETE</td> </tr> <tr> <td>5. EQUIPMENT INSTALLATION COMPLETE</td> </tr> <tr> <td>6. PROVE OUT BEGINS</td> </tr> <tr> <td>7. PROVE OUT COMPLETE</td> </tr> </tbody> </table>					Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date								MONTH & YEAR	1. CONCEPT DESIGN COMPLETE	2. FINAL DESIGN COMPLETE	3. INITIAL/FINAL PROJECT AWARD	4. CONSTRUCTION COMPLETE	5. EQUIPMENT INSTALLATION COMPLETE	6. PROVE OUT BEGINS	7. PROVE OUT COMPLETE
Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date																						
MONTH & YEAR																												
1. CONCEPT DESIGN COMPLETE																												
2. FINAL DESIGN COMPLETE																												
3. INITIAL/FINAL PROJECT AWARD																												
4. CONSTRUCTION COMPLETE																												
5. EQUIPMENT INSTALLATION COMPLETE																												
6. PROVE OUT BEGINS																												
7. PROVE OUT COMPLETE																												

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE February 2000	
2. PROJECT TITLE/TYPE Production Support and Equipment Replacement		3. END ITEM SUPPORTED MODEL								Artillery and Loaded Components	
4. PROJECT NUMBER 5015316		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable								6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable	
ELEMENT OF COST		FY 98		FY 99		FY 00		FY 01		H. FACILITY 1. NAME Lone Star Army Ammunition Plant Texas, Texas 2. LOCATION GOCO 3. TYPE (GOGO, GOCO, COCO)	
A. CONSTRUCTION COST				616		918		1236			
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)				369		441					
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST				369		441					
C. EQUIPMENT INSTALLATION COST				135		472					
D. CONTRACTOR SUPPORT COST				55		68					
E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST											
TOTAL FACILITY PROJECT COST				1175		1899		1239			
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
I. RELATED PROJECTS		Project Number		Title		FY & Appn		Value (\$ mil)		Facing Start Date Compl Date	
		Not Applicable		Not Applicable							
J. PRINCIPAL MILESTONES		1. CONCEPT DESIGN COMPLETE		2. FINAL DESIGN COMPLETE		3. INITIAL/FINAL PROJECT AWARD		4. CONSTRUCTION COMPLETE		5. EQUIPMENT INSTALLATION COMPLETE	
		6. PROVE OUT BEGINS		7. PROVE OUT COMPLETE							
MONTH & YEAR		Not Applicable		Nov-99		Dec-00/Dec-00		Sep-02		Not Applicable	
		Not Applicable		Not Applicable		Not Applicable		Not Applicable		Not Applicable	
NARRATIVE EXPLANATION		Provides for the replacement of deteriorated corrugated metal roofs on 4 buildings in Area H which store various types of inert materials that play a major role in the daily operation of the plant. Effort will replace deteriorated roofing in Area B. Failure to replace roofs will allow water from rainfall to enter the building, resulting in continued clean-up of the interior equipment to avoid equipment deterioration and endangering production capabilities. Further, effort will replace the secondary water distribution system in Area B. Restored parts are unavailable; line, valves, and fire hydrants leak or do not operate properly; and changes in water pressure and temperature result in breaks on a regular basis.									

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)										1. DATE	
2. PROJECT TITLE/TYPE										February 2000	
Production Support and Equipment Replacement											
3. END ITEM SUPPORTED MODEL											
4. PROJECT NUMBER											
5015317											
5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5)										Medium Caliber, Mortar, Fuze	
Not Applicable										6. ANNUAL CAPACITY AFTER PROJECT (1-8-5)	
Not Applicable											
H. FACILITY											
1. NAME										Milan Army Ammunition Plant	
2. LOCATION										Milan, Tennessee	
3. TYPE (GOGO, GOCO, COCO)										GOCO	
I. RELATED PROJECTS											
Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date					
	Not Applicable										
							J. PRINCIPAL MILESTONES				
							1. CONCEPT DESIGN COMPLETE 2. FINAL DESIGN COMPLETE 3. INITIAL/FINAL PROJECT AWARD 4. CONSTRUCTION COMPLETE 5. EQUIPMENT INSTALLATION COMPLETE 6. PROVE OUT BEGINS 7. PROVE OUT COMPLETE				
							MONTH & YEAR				
							Not Applicable Nov-99 Jan-01/Jan-01 Jun-02 Jun-02 Not Applicable Not Applicable				
A. CONSTRUCTION COST		FY 98	FY 99	FY 00	FY 01						
			1551	705	803						
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)			838	924	260						
1.											
2.											
3.											
SUBTOTAL EQUIPMENT COST			838	924	260						
C. EQUIPMENT INSTALLATION COST			398	159	382						
D. CONTRACTOR SUPPORT COST			118	23	59						
E. CORPS OF ENGINEERS SUPPORT COST											
F. OTHER IN-HOUSE SUPPORT COST											
TOTAL FACILITY PROJECT COST			2905	1811	1504						
G. OTHER COSTS											
1. FACILITY PROVE-OUT COST											
2. MILITARY CONSTRUCTION APPN.											
NARRATIVE EXPLANATION											
This project will purchase multiple pieces of equipment to upgrade the quality of the mortar components produced at Milan Army Ammunition Plant. This will eliminate several personnel intensive operations and improve the quality sufficiently to eliminate in-process Quality Assurance personnel. This project will replace over-age transite roofs in Buildings K-204 through K-206 before extensive damage occurs which will substantially increase the cost of eventual replacement. Further, this project will reroof the inert storage buildings in order to correct unsafe conditions and prevent water damage to materials. The shingles in these areas have lasted approximately 15 years beyond their expected life.											

INDUSTRIAL FACILITIES COST ANALYSIS (Dollars in Thousands)							1. DATE
2. PROJECT TITLE/TYPE Production Support and Equipment Replacement		3. END ITEM SUPPORTED MODEL 120mm Tank, 105/155mm Artillery, Mines/Countermines, 81mm Mortar					February 2000
4. PROJECT NUMBER 5015333		5. ANNUAL CAPACITY BEFORE PROJECT (1-8-5) Not Applicable					6. ANNUAL CAPACITY AFTER PROJECT (1-8-5) Not Applicable
H. FACILITY							
1. NAME		Iowa Army Ammunition Plant					
2. LOCATION		Middletown, Iowa					
3. TYPE (GOGO, GOCO, COCO)		GOCO					
I. RELATED PROJECTS							
Project Number	Title	FY & Appn	Value (\$ mil)	Facing	Start Date	Compl Date	
J. PRINCIPAL MILESTONES							
1. CONCEPT DESIGN COMPLETE							MONTH & YEAR
2. FINAL DESIGN COMPLETE							Apr-98
3. INITIAL/FINAL PROJECT AWARD							Jan-99
4. CONSTRUCTION COMPLETE							Dec-00/Jan-01
5. EQUIPMENT INSTALLATION COMPLETE							Oct-02
6. PROVE OUT BEGINS							Not Applicable
7. PROVE OUT COMPLETE							Not Applicable
ELEMENT OF COST		FY 98	FY 99	FY 00	FY 01		
A. CONSTRUCTION COST			1261	332	1294		
B. EQUIPMENT COSTS (Individual equipment cost should be specified for all equipment costing more than \$0.5 million)			560	1538			
1.							
2.							
3.							
SUBTOTAL EQUIPMENT COST			560	1538			
C. EQUIPMENT INSTALLATION COST			180	510	32		
D. CONTRACTOR SUPPORT COST			60	42	68		
E. CORPS OF ENGINEERS SUPPORT COST			50				
F. OTHER IN-HOUSE SUPPORT COST							
TOTAL FACILITY PROJECT COST			2111	2422	1394		
G. OTHER COSTS							
1. FACILITY PROVE-OUT COST							
2. MILITARY CONSTRUCTION APPN.							
NARRATIVE EXPLANATION							
Funds will be used to replace asbestos insulation with a nonasbestos product, eliminating health hazards; the heating, ventilation, and air conditioning (HVAC) systems; and roofs in older buildings. Currently, extensive maintenance is required, including recharging the chillers with Freon, which is an Ozone Depleting Chemical (ODC). Further, replacing the roof will eliminate asbestos roof panels, improve ventilation, and improve insulating value. These structures are currently used for the production and mechanical shops.							

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:	
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support												LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)	
Program Elements for Code B Items:												Other Related Program Elements:	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
Proc Qty													
Gross Cost	517.8	21.5	12.6	20.1	3.5	3.2	6.7	5.9	6.0	6.2	0.0	603.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	517.8	21.5	12.6	20.1	3.5	3.2	6.7	5.9	6.0	6.2	0.0	603.5	
Initial Spares													
Total Proc Cost	517.8	21.5	12.6	20.1	3.5	3.2	6.7	5.9	6.0	6.2	0.0	603.5	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: This line provides for the preserving, storing, and disposing of industrial facilities and equipment that are no longer required to support current production. Funding is required as follows:

<p><u>PROJECT NUMBER</u></p> <p>5XX4050 INDUSTRIAL OPERATIONS COMMAND (IOC)</p> <p>LAYAWAY AND/OR REDISTRIBUTION OF GOVERNMENT-OWNED EQUIPMENT</p> <p>TOTAL IOC LAYAWAY OF INDUSTRIAL FACILITIES 3.2</p>	<p><u>FY 01</u></p> <p>3.2 DECONTAMINATION</p> <p>(1.0) LAYAWAY</p> <p>(0.2) MODIFIED CARETAKER</p>
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JUSTIFICATION: Funds are used for the protection and preservation of equipment and facilities no longer required for active production but must be retained for possible future peacetime or replenishment production needs. Included are those funds needed to cover the packaging, crating, handling, and transportation (PCH&T) costs for moving equipment to a disposal point or storage site, decontamination, and plant clearance requirements.

Exhibit P-40C Budget Item Justification Sheet				Date	February 2000
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature			
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		LAYAWAY OF INDUSTRIAL FACILITIES (EP2000)			
Program Elements for Code B Items		Code	Other Related Program Elements		
LOCATION	PROJECT TITLE	PROJECT	FY 01		
Iowa Army Ammunition Plant (AAP), Milan AAP, Lone Star AAP, Pine Bluff Arsenal	Retain (RT) - Layaway (Lwy) and Downsize (D) Minor Efforts less than \$75K	8000	.238		
Iowa AAP Middletown, IA	DS - Transition Line 9 to Modified Caretaker	8029	.240		
Iowa AAP Middletown, IA	RT - Lwy. Remote Anti-Armor Artillery Munition (RAAM), Phase II	8113	.268		
Iowa AAP Middletown, IA	RT - Lwy M913, 105mm Artillery Projectile, Load, Assemble, and Pack (LAP)	8904	.142		
Iowa AAP Middletown, IA	RT - Lwy 120mm Projectile LAP	8911	.127		
Sunflower AAP DeSoto, KS	DS - Resource Conservation and Recovery Act (RCRA) Closure, Hazardous Storage and Land	8609	1.000		
Sunflower AAP DeSoto, KS	DS - Disposal of Plant	8831C	1.200		
TOTAL			3.215		

Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000	
Appropriation / Budget Activity/Serial No:		P-1 Item Nomenclature:										MAINTENANCE OF INACTIVE INDUSTRIAL FACILITIES (EP1500)		
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support		Other Related Program Elements:												
Program Elements for Code B Items:		Code:												
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog		
Proc Qty														
Gross Cost	353.4	22.4	15.1	17.7	12.9	12.3	10.7	9.6	9.8	10.0	0.0	473.9		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	353.4	22.4	15.1	17.7	12.9	12.3	10.7	9.6	9.8	10.0	0.0	473.9		
Initial Spares														
Total Proc Cost	353.4	22.4	15.1	17.7	12.9	12.3	10.7	9.6	9.8	10.0	0.0	473.9		
Flyaway UIC														
Wpn Sys Proc UIC														

DESCRIPTION:
This line provides for the maintenance of laidaway portions of active plants; care and maintenance of laidaway plants; and the storage, protection, and maintenance of laidaway Government-owned equipment being stored on-site at contractor-owned plants. Detailed budget estimates, by location, are provided on the Program Cost Breakdown(P-5). The following is a summary of funds required:

(1) Inactive Production Lines/Areas at Active Plants	FY 01	
		\$5.7M
(2) Inactive Production Lines/Areas at Inactive Plants		\$6.6M
TOTAL		\$12.3M

JUSTIFICATION:
Funds are used for the maintenance of laidaway ammunition industrial facilities to include utilities, buildings, nonseverable equipment, plant equipment, special tooling, and special test equipment being retained as part of approved plant equipment packages (PEPs) which are required to support future replenishment requirements. Also, includes a fair share of the recurring overhead costs such as grounds maintenance, fire protection, plant security, and administrative support.

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support				P-1 Line Item Nomenclature: MAINTENANCE OF INACTIVE FACILITIES (EP1500)				Weapon System Type:		Date: February 2000	
Cost Elements		FY 98		FY 99		FY 00		FY 01					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
INACTIVE LINES AT ACTIVE PLANTS													
					100		78				79		
	Crane Army Ammunition Activity (AAA)				2326		1756				1705		
	Holston Army Ammunition Plant (AAP)				356		476				320		
	Iowa AAP				110								
	Lake City AAP				401		608				270		
	Lone Star AAP				427		434				442		
	McAlester AAP				157		241				166		
	Milan AAP				743						700		
	Pine Bluff Arsenal				1520		1729				1500		
	Radford AAP						33				528		
	Seneca/Hawthorne Army Depot				6140		6055				5710		
SUBTOTAL													
INACTIVE PLANTS													
	Badger AAP				760		539				750		
	Cornhusker AAP				240		50				50		
	Indiana AAP				2188		400				300		
	Joliet AAP				60		84				86		
	Longhorn AAP				512		250				422		
	Louisiana AAP				1064		1000				800		
	Mississippi AAP				1699		800				150		
	Ravenna AAP				301		300				831		
	Riverbank AAP				1362		956				250		
	Scranton AAP				228		300				737		
	Sunflower AAP				600		600				210		
	Twin Cities AAP				158		288				1971		
	Volunteer AAP				2430		1319				6557		
	SUBTOTAL				11602		6886						
INACTIVE LINES AT CONTRACTOR PLANTS													
	Alliant Techsystems, Incorporated												
	AMRON Corporation (Antigo/Waukesha)				4								
	Dayron												
	Intercontinental Manufacturing Company				4								
	SUBTOTAL										12267		
	TOTAL				17746		12941						

Exhibit P-40, Budget Item Justification Sheet										Date:	February 2000	
Appropriation / Budget Activity/Serial No:			P-1 Item Nonmendature:							CONVENTIONAL AMMUNITION DEMILITARIZATION (EP 1600)		
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support			Other Related Program Elements:									
Program Elements for Code B Items:			Code:	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
	Prior Years	1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	355.4	95.5	89.6	82.3	85.6	84.8	81.9	105.5	116.9	123.1	0.0	1220.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	355.4	95.5	89.6	82.3	85.6	84.8	81.9	105.5	116.9	123.1	0.0	1220.6
Initial Spares												
Total Proc Cost	355.4	95.5	89.6	82.3	85.6	84.8	81.9	105.5	116.9	123.1	0.0	1220.6
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The conventional ammunition demilitarization program funds the disposal, demilitarization, and resource recovery and recycling of conventional ammunition. This program also funds the movement of ammunition and technical support for demilitarization projects at various installations, and the commercial contracts for resource recovery/demilitarization of excess, obsolete, and unserviceable ammunition. Safety demilitarization is also funded for those ammunition assets which have become unsafe for continued storage.

JUSTIFICATION: As of 30 Sep 99, the conventional ammunition demilitarization account contained over 493,000 short tons of ammunition. The demilitarization stockpile will remain significant, with the generation of ammunition items into the account matching or exceeding demilitarization accomplishments. In Fiscal Year 1999, demilitarization accomplishments totaled 88,738 short tons, however, an additional 107,908 short tons were generated. Future generations of ammunition into the demilitarization account are forecasted to approach 433,000 short tons over the next 6 years. Fiscal Year 2000 accomplishments are projected to be approximately 63,000 short tons.

The accumulation of ammunition requiring demilitarization has a direct impact on the Army's ability to effectively support contingency operations. Demilitarization stocks simply get in the way of mobility operations, are malpositioned for the end state assignments (depot tiering), older ammunition stocks are potentially unstable and require more funding for safety demilitarized actions, require surveillance operations to perform safety-in-storage inspections versus periodic inspections, and could present the Army with a large storage liability if the environmental munitions rule becomes more restrictive and these stocks are declared a hazardous waste prior to their movement for final disposition..

The demilitarization program has the capability to execute at funding levels well in excess of those proposed, but the proposed levels will at least minimize the worst impacts of an increasing demilitarization inventory. As the execution agent for demilitarization of ammunition for all Services, the Army must demonstrate a strong

Exhibit P-5, Weapon Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION /Ammunition Production Base Support /				P-1 Line Item Nomenclature: CONVENTIONAL AMMUNITION DEMILITARIZATION (EP1800)				Weapon System Type:		Date: February 2000				
Cost Elements		FY 98				FY 99				FY 00				FY 01		
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000	\$000	Tons	\$000
WP/PWP	CP														3	
RIOT CONTROL	CR															
SMOKES,HC,COLORS,FS	CS															
DEP URANIUM/TUNGSTEN CARBIDE	DU					1750			198							
INCENDIARY/THERMITE	FI					312			64							
PYROTECHNICS/ILLUMINATION/NON FRAG	FP					619			800							
HE COMPONENTS/DEVICES	HA															
HE BOMBS	HB					62			74							
HE CARTRIDGES	HC					2464			2927							
HE EXPLOSIVE "D"	HD					1382			3806							
BULK HIGH EXPLOSIVES	HE															
HE GRENADES	HG					96			99							
HE DEPTH CHARGES	HH					2755			1854							
HE ICM/CBU AND SUBMUNITIONS WTV	HI					5578			19733							
HE MISSILES	HM					15			13							
HE PROJECTILES AND WARHEADS	HP					1241			2799							
HE ROCKETS	HR					1555			2121							
TORPEDOES	HT															
DEMOLITION MATERIAL	HX					81			81							
HE LAND MINES	HZ															
INERT	I															
LARGE ROCKET MOTORS	LR3					135			303							
BULK PROP	PB															
PROPELLANT CHARGES AND INCREMENT	PC					668			526							
PROPELLANT MUNITIONS/COMPONENTS	PD					2991			4123							
SMALL ARMS AMMO THRU 20MM	SA					2238			2954							
INCINERABLE MUNITIONS	SC					91			3309							
FUZES	SF					369			296							
MULTIPLE FAMILY	MU					165			250							
NO FAMILY	N					51314			26612							
OCONUS DEMIL	OC					2400			1725							
						4000			4000							
TOTAL						82281			78667							
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Exhibit P-40, Budget Item Justification Sheet												Date:	February 2000	
Appropriation / Budget Activity/Serial No:												P-1 Item Nomenclature:		
PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support												ARMS INITIATIVE (EP2500)		
Program Elements for Code B Items:												Other Related Program Elements:		
	Prior Year	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog		
Proc Qty														
Gross Cost	159.4	31.9	24.9	9.8	26.4	4.7	4.7	4.6	4.7	4.8	0.0	275.9		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	159.4	31.9	24.9	9.8	26.4	4.7	4.7	4.6	4.7	4.8	0.0	275.9		
Initial Spares														
Total Proc Cost	159.4	31.9	24.9	9.8	26.4	4.7	4.7	4.6	4.7	4.8	0.0	275.9		
Flyaway U/C														
Wpn Sys Proc U/C														
<p>DESCRIPTION: The Armament Retooling and Manufacturing Support (ARMS) Initiative reuses idle capacity at active and reserve Government-owned, contractor-operated (GOCO) ammunition facilities through commercialization. Congress enacted this program in the Fiscal Year (FY) 1993 Defense Authorization Act, Public Law (PL) 102-484. ARMS uses financial incentives, such as facility strategic reuse plans; marketing plans; building modification; equipment relocation, alteration, or consolidation; environmental baseline studies; and loan guarantees. ARMS objectives include reducing facility operating/ownership costs, lowering facility maintenance, providing opportunities for small businesses, retaining critical skills, and sustaining economic development.</p> <p>JUSTIFICATION: The Army's ammunition industrial manufacturing base is unique. It involves hazardous/explosive material processing and handling, represents a large investment, and requires critical skills. In 1990 the peacetime and replenishment concept of attracting Government (defense and non-defense) and commercial subcontractors to GOCO ammunition facilities met with little success. The ARMS program became the catalyst to commercialize active and reserve ammunition facilities meeting these challenges. ARMS represents a tool that allows the Army to manage the ammunition infrastructure as a commercial business - improves process/product efficiencies by reducing overhead; enhances competition for ammunition products and ammunition facility management. This management concept has allowed ammunition producers to apply overhead costs across multiple contracts and become competitive in both government and commercial production within the same facility. Foremost, ARMS becomes a critical tool to reshape the base supporting the need to transition the Army to an agile/responsive force structure while optimizing an existing industrial assets.</p>														

Exhibit P-5, Ammo Cost Analysis		Appropriation/ Budget Activity/Serial No: PROCUREMENT OF AMMUNITION / 2 / Ammunition Production Base Support				P-1 Line Item Nomenclature: ARMS INITIATIVE (EP2500)				Weapon System Type:		Date: February 2000	
		FY 98		FY 99		FY 00		FY 01					
ID	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Cost Elements													
Financial Incentives					8926						25325		3648
Environmental Baselines					250						893		871
Loan Guarantees											200		200
Administrative Support					643								
TOTAL					9819						26418		4719
Active and reserve Army Ammunition Plants are currently participating in the Armament, Retooling, and Manufacturing Support (ARMS) initiative and eligible to receive the incentives. As the Army continues to adjust its ammunition industrial base configuration under the Production Base Assessment, facility eligibility may change. This requires transition and other business strategies to be developed for the ARMS Program.													